



# **REGULATIONS**

**on the Organization of Research and Technical  
Activities at the Ivan Kozhedub Kharkiv  
National Air Force University**



**The Air Force of the  
Armed Forces of Ukraine**

APPROVED

By the decision of the Academic Council  
of Ivan Kozhedub Kharkiv National  
Air Force University  
Protocol 23.02.2021 № 3

REGULATION

on the Organization of Research and Technical Activities  
at the Ivan Kozhedub Kharkiv National Air Force University

Enacted by the order of the Commandant  
of the Ivan Kozhedub Kharkiv National  
Air Force University 29.03.2021 № 478

## CONTENTS

1. General Provisions .....	3
2. Main Directions of Scientific Research at Kharkiv National Air Force University .....	8
3. Management, Organization, and Coordination of Research and Technical Activities .....	14
4. Provision of Research and Technical Activities at Kharkiv National Air Force University .....	15
5. International Research and Technical Cooperation .....	17

Research and Technical Activities (hereinafter – RTA) at the Ivan Kozhedub Kharkiv National Air Force University (hereinafter – the University) are organized in accordance with the “Regulation on the Organization of Research and Technical Activities within the System of the Ministry of Defense of Ukraine”, approved by the Order of the Minister of Defense of Ukraine dated 27.07.2016 № 385 (as amended).

This Regulation on the Organization of Research and Technical Activities at the Ivan Kozhedub Kharkiv National Air Force University (hereinafter – the Regulation) is aimed at clarifying the specific features of organizing RTA at the University.

## 1. General Provisions

1.1. RTAs at the University constitute intellectual and creative activities aimed at the development of military science, improving its effectiveness, and applying scientific achievements in the military development of Ukraine. They are an integral part of educational activities and a duty of the University's leadership, Research, and Academic staff.

1.2. Research and Technical Activities at the University are conducted in accordance with the Constitution of Ukraine, the Laws of Ukraine "On Research and Technical Activities," "On Priority Directions for Science and Technology Development," "On Research and Technical Expertise," other regulatory acts of Ukraine related to Research and Technical Activities, orders and directives of the Minister of Defense of Ukraine, the Commander-in-Chief of the Armed Forces of Ukraine, orders of the Minister of Education and Science, the Commander of the Air Force of the Armed Forces of Ukraine, the Commandant of the University, the Statute of the Ivan Kozhedub Kharkiv National Air Force University, and this Regulation.

1.3. RTA is conducted according to research programs, research fields, research problems, and research tasks determined by the prospects, practices, and needs of ensuring the state's defense capability. These are formulated by relevant orders and directives of the Minister of Defense of Ukraine, the Commander-in-Chief of the Armed Forces of Ukraine, the Commander of the Air Force of the Armed Forces of Ukraine, and the Commandant of the University.

1.4. Subjects of research and technical activity of the University include: scientists, research and academic staff, doctoral candidates, adjuncts, the Air Force Research Center (Air Force Research Institute) of Kharkiv National Air Force University, the Institute of Civil Aviation and its faculty along with departments, faculties and their departments and research laboratories, general university departments, the scientific and administrative department, the Educational-Research Center for Language Training. Cadets and students of the University are also involved in RTA.

The subjects of research and technical activity of the University operate based on the University Statute and their respective Regulations.

1.5. The primary objective of RTA at the University is to acquire and apply new scientific knowledge with the aim of creating socially beneficial scientific outcomes, ensuring high-quality preparation of military specialists for the Armed Forces of Ukraine, developing highly qualified research and academic personnel, addressing complex tasks in the field of scientific and technological development, and implementing as well as utilizing theoretical and practical scientific results within the Armed Forces of Ukraine.

1.6. The main types of Research and Technical Activities at the University include:

- conducting fundamental, exploratory, and applied scientific-research on military issues within military, technical, social, and natural sciences;

- conducting research during exercises, tests, and other activities related to operational, mobilization, and combat training, as well as daily operations of the troops (headquarters);

- developing tasks (tactical-technical, technical) for research execution and solving other scientific problems;

- summarizing and disseminating combat experience of the troops (forces) and best practices of operational, mobilization, and combat training, as well as daily operations of the troops (headquarters);

- preparing scientific works (monographs, encyclopedias and dictionaries, manuals, textbooks, methodological guides, dissertations, articles, scientific-research and research-development (R&D) works, operational tasks, reports, research results from exercises, reviews, feedback, conclusions, etc.);

- preparation, organization, and participation in scientific and scientific-practical conferences, seminars, meetings, and similar events;

- participation in testing (factory, preliminary, and state) of new or modernized samples (complexes, systems) of weapons and military equipment;

- scientific and scientific-technical expertise;

- development of draft statutory, regulatory, and normative-technical documents, as well as scientific-methodical materials;

- invention and rationalization work;

- training of scientific and scientific-pedagogical personnel;

- scientific work of cadets (students) at the University;

- other activities related to obtaining new scientific results and providing scientific support for their practical implementation in the Air Force of the Armed Forces of Ukraine and the Armed Forces of Ukraine.

1.6.1. Fundamental and exploratory research at the University is conducted by the University-wide departments and the faculty departments of the University.

Applied research and development at the University is conducted by the Air Force Research Center of the University.

Comprehensive (systemic) research is performed by teams (thematic groups, creative collectives, etc.) composed of scientific and scientific-pedagogical staff, doctoral candidates and adjuncts, cadets (students), support personnel, and, if necessary, specialists from other organizations are involved.

1.6.2. Conducting research during exercises and other events of operational, mobilization, and combat training, as well as the daily activities of the Air Forces

of the Armed Forces of Ukraine, is aimed at testing in practice and implementing the obtained scientific-applied results regarding the development of the Armed Forces, forms and methods of their use, and improving the management system under conditions close to real scenarios, verifying the compliance of characteristics of samples (complexes, systems) of weapons and military equipment with operational-tactical and tactical-technical requirements, identifying problematic issues in military theory and practice, and searching for and substantiating ways to resolve them.

1.6.3. The University is a permanent organizer and participant of scientific events (conferences, seminars, etc.) as well as nationwide competitions of scientific works.

Annually, the University conducts:

the international scientific conference “Innovative Technologies for Aerospace Defense”;

the scientific conference of cadets and students of the University;

other thematic conferences and seminars.

The organization and conduct of scientific conferences and seminars are regulated by the “Regulations on the Procedure for Organizing Scientific (Scientific-Technical, Scientific-Practical) Conferences and Seminars at Kharkiv National University of Air Force”, approved by the order of the Commandant of the University.

The University also hosts a permanently functioning expert seminar for doctoral degree candidates (PhD candidates).

1.6.4. Inventive and Rationalization Work at the University is aimed at improving existing and creating new models (or their components) of weaponry and military equipment, increasing the efficiency of their use, searching for new technological (technical) solutions, enhancing the quality of scientific-research, research-development, and testing work, and protecting intellectual property rights.

The procedure for conducting patent-licensing, rationalization, and inventive work is regulated by the guiding documents of the Ministry of Defense of Ukraine.

1.6.5. Highly qualified scientific-pedagogical and scientific personnel at the University are trained in the doctoral and adjunct programs, as well as as candidates for academic degrees, working independently on dissertations to obtain the degree of Doctor of Sciences or Doctor of Philosophy (PhD candidates).

The scope of preparation and research topics for scientific and scientific-pedagogical personnel in the University’s doctoral and adjunct programs are determined by the Admission Plans for doctoral and adjunct programs of higher military educational institutions of the Ministry of Defense of Ukraine and scientific-research institutions of the Armed Forces of Ukraine, which are approved by the Minister of Defense of Ukraine.

1.6.6. A component of the University’s RTA is the scientific work of cadets (students), which, in accordance with current legislation, includes: research work integrated into the educational process (term papers, theses, practical and laboratory classes, industrial practice with elements of research, etc.) as well as work conducted outside of class hours.

The work of the military-scientific society of cadets and students at the

University is conducted in accordance with the “Regulations on the Research Work of Cadets and Students of the Kharkiv National Air Force University” enacted by order of the Commandant of the University.

To organize and conduct scientific activities of cadets and students, military-scientific societies have been established at all faculties of the University.

The military-scientific societies of the faculties bring together scientific clubs of the departments within their structure. In addition, separate scientific clubs have been established at the university-wide departments.

1.7. Scientific and scientific-applied results of RTA constitute the military-scientific output of the University. The main forms of this output include:

- reports on the completion of research works (RW), on the scientific support of research-development works (R&DW), project-development work and technological developments;

- reports on participation in tests of new (modernized) samples of weapons and military equipment;

- reports on the execution of operational tasks;

- reports on research conducted during exercises and other operational, mobilization, and combat training activities, as well as in the everyday activities of troops (headquarters);

- reports on patent research, patent forms completed during RW;

- applications for utility models and patents;

- military-theoretical works, monographs, dissertations, instructions, textbooks, manuals, statutory documents, state and departmental standards, classifiers and codifiers, materials from scientific conferences, seminars, meetings, scientific articles and reports, materials of scientific and scientific-technical expertise;

- algorithms, programs, mathematical models, informational and computational problems (problem sets), other specialized mathematical software, including those used to support the educational process at the University;

- laboratory equipment, training-simulation complexes, specialized classrooms, and other elements of the scientific-experimental base created as a result of conducting scientific research;

- results of other works related to issues of improving scientific activities and the educational process at the University.

1.8. Research and Technical Activities at the University are built on the principle of integration of education and science, implemented through:

- the organic unity of the content of education and the plans for Research and Technical Activities;

- training military specialists based on the use of the latest achievements in science and technology in priority areas of scientific-technological progress, as well as the results of the University’s Research and Technical Activities;

- development and implementation by scientific teams into the educational process of new information technologies and technical teaching aids created as a result of scientific research into the educational process;

- creation of higher education standards, textbooks, and teaching aids, taking into consideration scientific achievements and modern technologies;

- development of various forms of scientific cooperation (including international) with institutions and organizations outside the system of scientific-research institutions and higher military educational institutions to solve complex scientific problems and implement the results of scientific research and development;

- direct participation of scientific-pedagogical staff, doctoral students, adjoints, cadets (students) in the scientific activities of the departments and research units of the University;

- planning, conducting, and performing scientific research by scientific-pedagogical staff within their main working hours;

- involving leading scientists and researchers from the University and other scientific institutions and organizations in the teaching-educational process;

- using the University's scientific schools for the training of highly qualified scientific-pedagogical and scientific personnel;

- targeted use in scientific activities of the scientific-experimental and testing base of scientific-research units in the educational process, as well as the educational-laboratory and training ground base, training samples of weapons and military equipment;

- organization of scientific, scientific-practical, and scientific-methodological seminars, conferences, Olympiads, competitions, scientific-research, coursework, diploma, and other works of participants in the educational-teaching process in cooperation with research staff of the University's scientific units.

1.9. To ensure high-quality results in Research and Technical Activities at the University, a system of advisory bodies has been established.

The main responsibilities in this area are assigned to the University's Scientific-Technical Council, which coordinates Research and Technical Activities as well as the training of scientific-pedagogical and Research staff at the University. The work of the Research and Technical Council is organized in accordance with the "Regulations on the Research and Technical Council of the Ivan Kozhedub Kharkiv National Air Force University," approved by the order of the Commandant of the University. Some issues are preliminarily considered by the three sections of the Research and Technical Council.

The results of research conducted by the University's units are discussed at the Research Council of the Air Force Research Center of the University (four sections) and at extended meetings of the departments.

The outcomes of the discussions on the most significant issues are submitted for approval to the University's Academic Council.

1.10. For the defense of doctoral and candidate (Doctor of Philosophy) dissertations in the relevant scientific specialties in the fields of military and technical sciences, specialized academic councils have been established at the University.

The University's specialized academic councils operate based on the "Regulations on the Specialized Academic Council," enacted by the order of the Ministry of Education and Science, Youth and Sports of Ukraine dated 14.09.2011 № 1059 (as amended), the "Regulations on the Specialized Academic Council of the Ivan Kozhedub Kharkiv National Air Force University," approved by the order



of the Commandant of the University, and the “Procedure for Conducting an Experiment on Awarding the Degree of Doctor of Philosophy,” approved by the Resolution of the Cabinet of Ministers of Ukraine dated March 6, 2019, № 167.

1.11. For the publication of scientific research results, including the results of dissertations for obtaining doctoral and candidate degrees (Doctor of Philosophy), the University publishes scientific journals that are included in the lists of specialized academic publications in the fields of military and technical sciences. The University’s scientific publications are registered and timely uploaded to the electronic database of scientific publications of the Vernadsky National Library of Ukraine, which is freely accessible to all Internet users.

1.12. Based on the results of the implementation of RW and operational tasks, final, intermediate reports or working materials for individual stages of the work are prepared and submitted.

The results of RW and operational tasks conducted at the University are considered implemented if they:

- are used to address current issues in military science, the construction, and development of the Armed Forces of Ukraine;

- are incorporated into statutes, guidelines, manuals, instructions, and other normative documents of the Ministry of Defense of Ukraine and the branches of the Armed Forces of Ukraine;

- are used for the creation of new and the modernization of existing weapons and military equipment, improvement of rules for their operation and maintenance, as well as for the design, construction, and operation of special facilities and structures;

- are integrated into the educational process of the University’s departments, MHEI, and troops (forces), and are used for writing textbooks, training manuals, military-theoretical works, and monographs.

The implementation of the results of each RW must be documented and confirmed by the customers of the military-scientific products in the form of an act of implementation of the RW.

## 2. Main Directions of Research at the Kharkiv National Air Force University

In accordance with the requirements of the Ministry of Defense of Ukraine Order № 53 dated 26.01.2017 (as amended) “On the Approval of the Distribution of Main Directions of Scientific Research Among Scientific Institutions and Higher Military Educational Institutions of the Ministry of Defense of Ukraine and the Armed Forces of Ukraine,” the following main directions of scientific research at the Kharkiv National Air Force University are defined:

- development of the command and control system of the Air Force of the Armed Forces of Ukraine;

- development of the air defense system of Ukraine;

- development of operational art of the Air Force of the Armed Forces of Ukraine and tactics of units and subunits of the Air Force, support units, air defense troops, missile troops of the Ground Forces of the Armed Forces of

Ukraine, as well as units and subunits of electronic intelligence and electronic warfare of the Armed Forces of Ukraine;

development and improvement of methods for assessing the effectiveness of Ukraine's air defense system and the combat employment of Air Force formations of the Armed Forces of Ukraine using combat action models;

justification of the main directions for the development of armaments and military equipment of the Air Force, air defense and missile troops of the Ground Forces of the Armed Forces of Ukraine, special operations forces equipment, electronic intelligence and electronic warfare means, and space support systems technology;

research on models and methods for metrological maintenance of military measurement equipment;

development of information-analytical support for the implementation of geoinformation and satellite navigation system technologies;

research on electrical equipment of weapon and military equipment complexes, electrical safety, and modernization of general-purpose (special) military electrical equipment.

## 2.1. Directions of Research and Technical Activities of the Main Units of the Ivan Kozhedub Kharkiv National Air Force University

### 2.1. Directions of Research and Technical Activities of the Air Force Research Center of the Ivan Kozhedub Kharkiv National Air Force University:

improvement of the structure and composition of command post systems of the Air Forces of the Armed Forces of Ukraine, their equipment, organization of combat operations, and training of combat crews;

development of the automated control system for aviation and air defense;

development of the communications system of the Air Forces of the Armed Forces of Ukraine;

development of the structure, composition, forms, and methods of combat employment of the Air Forces of the Armed Forces of Ukraine in current and prospective groupings of the Armed Forces of Ukraine;

development of management algorithms and information support technologies for decision-making processes by military command bodies during planning and employment of the Air Forces of the Armed Forces of Ukraine;

development and improvement of the forms, methods, and content of Ukraine's air defense;

development and improvement of methods and techniques for assessing the effectiveness of the air defense system, combat employment of the Air Forces of the Armed Forces of Ukraine, air defense forces, and missile troops of the Ground Forces of the Armed Forces of Ukraine;

development of methodologies for assessing the effectiveness, combat capabilities, and combat potential of formations, units, and subunits of the branches and aviation of the Air Forces of the Armed Forces of Ukraine;

- development of tactics for units and subunits of the branches of troops and aviation of the Air Force of the Armed Forces of Ukraine, air defense of the Ground Forces of the Armed Forces of Ukraine, operational (combat) support units of the Air Force of the Armed Forces of Ukraine, and methods of combat employment of their weapons and military equipment;

- research into the development of navigation, topogeodetic, and aeronautical support systems for the aviation of the Air Force of the Armed Forces of Ukraine;

- development of the operational (combat), material-technical (logistical), and metrological support systems for the Air Force of the Armed Forces of Ukraine;

- development of the Air Force logistics support system, its structure, composition, and organization;

- conducting analysis of the current state and prospects for changes in the qualitative and quantitative conditions of weapons and military equipment;

- justification of the main directions for the development of weapons and military equipment of the Air Force, air defense forces, and missile troops of the Ground Forces of the Armed Forces of Ukraine, weapons of special operations forces, electronic reconnaissance systems, electronic warfare, and space support systems;

- justification of modernization options, implementation, and expert evaluation of the compliance of implemented and prospective operational-tactical and tactical-technical requirements in samples of weapons and military equipment of the Air Force, air defense forces, and missile troops of the Ground Forces of the Armed Forces of Ukraine;

- development of information-analytical support for the implementation of geoinformation and satellite radionavigation technologies to ensure intelligence activities of the Air Force of the Armed Forces of Ukraine.

2.1.2. Fields of Research and Technical Activities of the Civil Aviation Institute of Kharkiv National Air Force University:

- scientific support for the training of students in the following specialties:

- Software Engineering, Computer Engineering, Cybersecurity, Electric Power Engineering, Electrical Engineering and Electromechanics, Metrology and Information-Measurement Technology, Avionics, Aviation Transport;

- development of dual-purpose information systems for the Air Force of the Armed Forces of Ukraine; substantiation of the role of dual-purpose information systems in advanced armaments and military equipment of the Air Force of the Armed Forces of Ukraine; development of decision-support information systems for dual-purpose systems.

2.1.3. Directions of Research and Technical Activities of the Flight Faculty of the Kharkiv National Air Force University:

- scientific support for the training of cadets in the specialties: military management (by branches of the Armed Forces) and support of troops (forces);

- justification of proposals regarding the composition of aviation command posts of the Air Force of the Armed Forces of Ukraine, their equipment, organization of combat operations, and preparation of combat crews (in

cooperation with the Research Center of the Air Force of the Kharkiv National Air Force University);

development of proposals for the implementation of automated aircraft guidance methods from aviation control points;

development (improvement) of the categorical and conceptual framework related to flight operation issues of aviation equipment of the Air Force of the Armed Forces of Ukraine (in cooperation with the Research Center of the Air Force of the Kharkiv National Air Force University);

development of tactics for aviation units and subunits of the Air Force of the Armed Forces of Ukraine;

research on ways to improve navigation, topogeodetic, and aeronautical support for aviation of the Air Force of the Armed Forces of Ukraine;

development of proposals for improving existing methods of evaluating the effectiveness of aviation units and subunits of the Air Force of the Armed Forces of Ukraine;

justification of the main directions for the development of elements of weapons and military equipment of aviation of the Air Force of the Armed Forces of Ukraine.

2.1.4. Directions of Research and Technical Activities of the Engineering-Aviation Faculty of the Kharkiv National Air Force University:

scientific support for the training of cadets in the specialties: aviation transport and avionics;

development of engineering-aviation support for the Air Force of the Armed Forces of Ukraine;

development and implementation of methods for evaluating the effectiveness of engineering-aviation support of the Air Force of the Armed Forces of Ukraine using combat operation models;

justification of the main directions for the development of elements of aviation weapons and military equipment of the Air Force of the Armed Forces of Ukraine.

2.1.5. Directions of Research and Technical Activities Faculty of Anti-Aircraft Missile Forces, Ivan Kozhedub Kharkiv National Air Force University:

scientific support for the training of cadets in the specialty of telecommunications and radio engineering;

development of elements of the command and control system for units and subunits of the Anti-Aircraft Missile Forces of the Air Force of the Armed Forces of Ukraine;

development of tactics for units and subunits of the Anti-Aircraft Missile Forces of the Air Force of the Armed Forces of Ukraine;

development of proposals for improving the elements and methods of combat employment of anti-aircraft missile weapons of the Air Force of the Armed Forces of Ukraine.

2.1.6. Fields of scientific and scientific-technical activity of the Faculty of Automated Control Systems and Ground Aviation Support of the Kharkiv National Air Force University:

- scientific support for the training of cadets in the specialties – computer engineering; information systems and technologies; automation and computer-integrated technologies; telecommunications and radio-technical;

- development of elements of the automated control system of aviation and air defense;

- improvement of the structure of command posts of the Air Force of the Armed Forces of Ukraine in the field of communications support and automation of control processes, their equipment, organization of combat operations, and training of combat crews;

- development of methods for assessing the effectiveness of communication systems, radio-technical support, and automated control of Air Force units of the Armed Forces of Ukraine;

- improvement of elements of communication systems, radio-technical support, and automated control of Air Force units of the Armed Forces of Ukraine.

2.1.7. Fields of Research and Technical Activities of the Faculty of Radio-Technical Troops of Air Defense of the Kharkiv National Air Force University:

- scientific support of cadet training in the specialty of telecommunications and radio-technical;

- improvement of the composition of command posts of the radio-technical troops of the Air Force of the Armed Forces of Ukraine, their equipment, organization of combat operations, and training of combat crews;

- development of methods for automated collection and display of airspace information;

- development of tactics of units and subunits of the radio-technical troops of the Air Force of the Armed Forces of Ukraine;

- improvement of elements of weapons and military equipment of the radio-technical troops of the Air Force of the Armed Forces of Ukraine.

2.1.8. Fields of Research and Technical Activities of the Faculty of Air Defense of the Ground Forces of the Kharkiv National Air Force University:

- scientific support for the training of cadets in the specialties Military Management (by branches of the Armed Forces) and Armament and Military Equipment;

- improvement of the organizational structure of Air Defense units of the Ground Forces of the Armed Forces of Ukraine, and organization of combat crew training;

- development of methods for automated collection and display of airspace information;

- development of tactics for Air Defense units of the Ground Forces of the Armed Forces of Ukraine;

- improvement of elements of armament and military equipment of the Air Defense of the Ground Forces.

2.1.9. Fields of scientific and scientific-technical activity of the Faculty of Postgraduate Education of Kharkiv National Air Force University:

- scientific support for the training of cadets in the specialties: energy engineering, electrical engineering and electromechanics, metrology and information-measuring technology;

- development of the system of metrological support for armaments and military equipment of the Armed Forces of Ukraine;

- improvement of methods for assessing the effectiveness of metrological support for armaments and military equipment of the Armed Forces of Ukraine;

- improvement of electrotechnical equipment of armament and military equipment complexes, modernization of electrotechnical devices for general military (special) purposes;

- improvement of methods for studying foreign languages and aviation English.

2.1.10. Directions of Research and Technical Activities of the Faculty of Reserve Officers Training under Contract at Kharkiv National Air Force University:

- scientific support for the training of students in groups of military-accounting specialties;

- development of tactics for units and subunits of the branches of the Air Force of the Armed Forces of Ukraine.

2.1.11 Directions and Tasks of the Faculty for Retraining and Professional Development of Aviation Personnel at Kharkiv National University of Air Force in Research and Technical Activities:

- scientific support for the retraining and professional development of trainees in groups of military-accounting specialties: aviation combat operations management, combat employment of aviation, aviation equipment and armament.

- development of the Air Force management system of the Armed Forces of Ukraine, specifically:

- development of tactics for aviation units and subunits of the Air Force of the Armed Forces of Ukraine (in cooperation with the Air Force Scientific Center of Ivan Kozhedub Kharkiv National University of Air Force);

- development of proposals for improving existing methods for assessing the effectiveness of aviation units and subunits of the Air Force of the Armed Forces of Ukraine;

- justification of the main directions for the development of aviation armament and equipment of the Air Force of the Armed Forces of Ukraine.

2.1.12. Fields of Research and Technical Activities of the General University Departments of the Kharkiv National University of Air Force (by activity directions):

- development of methods for specialized physical training of Air Force military personnel of the Armed Forces of Ukraine, taking into consideration the specifics of military-professional activities;

- development of methods for radar target detection under unstable hydrometeorological conditions, severe meteorological events, and complex radio-electronic situation;

philosophical aspects of officer personality formation during education at a higher military educational institution;

improvement of professional and psychophysiological selection methods for candidates for military specialist training and contract service;

development of automotive and specialized equipment of the Air Forces of the Armed Forces of Ukraine;

improvement of the system for training and conducting live-fire exercises with small arms by servicemen at permanent deployment locations.

2.1.13. Fields of Research and Technical Activity directions of the Language Training Educational-Scientific Center of Kharkiv National Air Force University:

scientific support for the study of foreign languages in language courses;

development of methodologies for assessing the effectiveness of foreign language learning in language courses;

implementation of foreign language study in a native-speaker environment.

### 3. Management, organization, and coordination of Research and Technical Activities

3.1. General management of Research and Technical Activities at the University is conducted by the Commandant of the University.

3.2. The organization of RTA at the University, as well as its direct management, planning, and day-to-day administration, is performed by the Deputy Commandant of the University for Research within the authorities delegated by the Commandant of the University.

3.3. The Deputy Commandant of the University for Research performs the functions of organization and management of RTA at the University through the Research Department and the University Scientific-Technical Council, which acts as a consultative-advisory body.

3.4. Coordination, record-keeping, accounting, and methodological support for the implementation of RTA measures at the University are conducted by the Research and Administrative Department.

Reporting and correspondence on general RTA issues are handled by the Research and Administrative Department, while issues related to the execution of RW (R&DW) and operational tasks are managed by the performers of the work (tasks).

3.5. The organization and direct supervision of research and development are conducted by scientific supervisors. If necessary, scientific consultants and other responsible persons may also be appointed for conducting scientific research.

3.6. Planning, organization, and accounting of RTA at the University.

3.6.1. Planning of RTAs, as well as accounting for their results at the University, faculties, departments, and the Air Force Scientific Center of the University, is conducted in accordance with the Regulations on the Organization of Research and Technical Activities in the Armed Forces of Ukraine, approved by the order of the Minister of Defense of Ukraine, and this Regulation.

3.6.2. Planning and accounting of RTAs at the University is conducted by the Research and Administrative Department together with the educational units of faculties and departments under the guidance of the Deputy Chief of the University for Scientific Work.

The basis for planning RTAs of faculties, departments, and the Air Force Scientific Center of the University are the prospective and annual plans of Research and Technical Activities of the University, approved by the Commander of the Air Forces of the Armed Forces of Ukraine.

3.6.3. Based on the results of completed scientific research at the University, corresponding reports are prepared, collections of scientific papers, reports, and abstracts from scientific conferences are issued, and summaries of completed scientific-research works are prepared.

#### 4. Support of Research and Technical Activities at Kharkiv National Air Force University.

The main types of support for Research and Technical Activities at Kharkiv National Air Force University include legal, financial, material-technical, personnel, informational, and methodological support. The procedure for ensuring Research and Technical Activities at Kharkiv National Air Force University is conducted based on the current legislation of Ukraine, regulatory legal acts of the Ministry of Defense of Ukraine, and this Regulation.

##### 4.1. Legal Support.

4.1.1. Legal support for the University's RTA is conducted on the basis of the current legislation of Ukraine, regulatory legal acts of the Ministry of Defense of Ukraine, and this Regulation.

4.1.2. In accordance with the current legislation of Ukraine, the University may enter into agreements on scientific-technical cooperation, and interact with scientific-research institutions and organizations in Ukraine and other countries (if international agreements exist).

##### 4.2. Financial Support.

4.2.1. The financial support of RTA at the University is aimed at creating economic conditions for the effective conduct of research and development and is conducted using funds from the State Budget of Ukraine and other sources provided by the current legislation of Ukraine.

4.2.2. The financial-economic activities of the University in the field of RTA are conducted based on the University's budget, approved by the Commander of the Air Forces of the Armed Forces of Ukraine, under the relevant budget programs.

4.2.3. The planning of expenses for conducting scientific-research work is conducted independently by the University based on calculations, the results of which are reflected in the cost estimate as a whole for the project, with a breakdown of the cost of work (services) to be performed in the current budget year.

##### 4.3. Material-Technical Support.



4.3.1. Material-technical support of RTA at the University is aimed at creating and maintaining the scientific-experimental and laboratory base necessary for the effective conduct of research and development and is conducted using funds provided in the University's budget, according to the plans of the University's Research and Technical Activities.

4.3.2. The development of the University's scientific-experimental and laboratory base is planned in accordance with the relevant schedules, taking into consideration the volumes of funding and delivery timelines.

#### 4.4. Personnel Support.

4.4.1. Personnel support of RTA at the University is aimed at creating and maintaining the intellectual potential necessary to achieve an appropriate level of organization and conduct of research and development. Personnel support includes staffing managerial and scientific positions with military personnel and employees of the Armed Forces of the appropriate qualifications, training, retraining, and certification of scientific and scientific-pedagogical personnel, as well as their legal and social protection.

4.4.2. Research staff at the University are recruited on a competitive basis from military personnel and employees of the Armed Forces of Ukraine who have experience in Research and Technical Activities, as well as military service experience or are specialists in the research areas conducted by the University.

4.4.3. The appointment of officers to positions in the University's scientific units is conducted according to the established procedure in accordance with the Nomenclature of Positions for the Appointment of Officers, approved by the relevant order of the Minister of Defence of Ukraine.

Appointments of employees of the Armed Forces of Ukraine to positions in the University's scientific units are made by order of the University Commander.

4.4.4. Employees (military and civilian personnel of the Armed Forces of Ukraine) of the University, institutions, and organizations of the Ministry of Defence of Ukraine, as well as other ministries and departments, may be admitted to the University's scientific-research units on the basis of official part-time engagement in accordance with the established procedure under current legislation.

Research staff of the University have the right, during working hours and with the permission of the chief of the scientific institution, to conduct scientific-pedagogical activities at higher education institutions other than their primary place of work, up to 240 hours per academic year, while retaining their salary at their main place of employment.

4.4.5. The awarding of scientific degrees and academic titles to University staff is conducted in accordance with the procedure approved by the relevant resolution of the Cabinet of Ministers of Ukraine.

#### 4.5. Information Support.

Information support of the University's RTA is aimed at meeting the information needs of the University's research units. Information support is provided by the units of the Scientific Center.

The purpose of information support is to maximally satisfy the needs of the University's scientific units for modern, timely, operational, and reliable

information to ensure the effective conduct of RTA at the University.

#### 4.6. Scientific-Methodological Support.

Scientific-methodological support is an integral part of all types of RTA at the University and is aimed at creating, on the basis of a systematic approach, a scientific-methodological framework that ensures all components, types, and forms of RTA at the University. The responsibility for scientific-methodological support of research and scientific-technical (experimental) developments lies with the scientific supervisors of the work.

### 5. International Research and Technical Cooperation.

5.1. The University conducts Research and Technical cooperation with research institutions, educational establishments, and organizations of foreign countries in accordance with the current legislation of Ukraine and based on international agreements and contracts concluded by the Ministry of Defence of Ukraine.

The University carries out Research and technical cooperation with research institutions, educational establishments, and organizations of foreign countries in accordance with the current legislation of Ukraine and in compliance with international agreements and treaties concluded by the Ministry of Defence of Ukraine.

5.2. The University's international Research and Technical cooperation is aimed at:

- participating in the development of military equipment (ME) at the request of foreign countries;

- jointly conducting fundamental research;

- exchanging scientific information and achievements in RTA;

- providing opportunities for scientific internships abroad for scientific and scientific-pedagogical staff, doctoral students, adjuncts, and talented cadets (students), including familiarization with advanced global achievements in technology, instruments, and scientific equipment;

- participating in international scientific and scientific-practical conferences, seminars, and symposiums.

- participation in international research and practical conferences, seminars, and symposia.

5.3. A scientific mission shall be understood as the assignment of a research (or research and teaching) staff member, postgraduate student, adjunct, or doctoral candidate for a certain period to carry out scientific or research-and-teaching work, to participate in scientific conferences, symposia, seminars, scientific schools, or scientific expeditions outside the place of their main employment (for adjuncts and doctoral candidates – outside their place of study), provided there is an invitation from the host institution or an assignment from the institution where the scholar works (or studies).