

ALIKHAN BOKEIKHAN UNIVERSITY

**MODULAR EDUCATIONAL PROGRAM**  
**6B01403 "INITIAL MILITARY TRAINING"**

Semey, 2024 y.

Developed by the Department of Applied Biology

Discussed and approved at the meeting of the Department of Applied Biology  
(Protocol No. 6 of 01.02.2024)

Reviewed and recommended for approval at the meeting of the Academic Quality Council of the Faculty of Information Technology and Economics  
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## 1. EXPLANATORY NOTE

The modular educational program (MEP) is compiled on the basis of the following documents:

- The Law of the Republic of Kazakhstan "On Education" dated 27.07.2007 with additions and amendments dated 21.02.2019;
- The State Standard of Higher and Postgraduate Education approved by the Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2;
- Order of the Minister of Defense of the Republic of Kazakhstan dated July 12, 2017 No. 347 "On approval of the Rules of initial military training";
- Rules for the organization of the educational process on credit technology of education, approved by Order No. 152 of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011;
- Model Rules for the Activities of organizations of Higher and (or) Postgraduate Education, approved by Order No. 595 of the Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018;
- Professional standard "Teacher" approved by the order of the Acting Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500;
- Order of the Ministry of Science and Higher Education of the Republic of Kazakhstan dated March 27, 2023 No. 125 On Approval of Methodological recommendations on the organization and conduct of pedagogical practice for students of the field of education "Pedagogical Sciences"
- Form 26 "Structure of the modular educational program";

The MEP is designed as a set of sequential training modules for the entire period of study and is aimed at mastering the competencies necessary for awarding the Bachelor of Education degree under the educational program 6B01403 – "Initial military training".

The modules of the block of general education disciplines (GE) include the disciplines of the mandatory component: (MK) – 51 credits and the university component (UC) – 5 credits.

The block of basic disciplines (BD) includes disciplines of the university component (UC) – 37 credits and elective components (EV) – 75 credits.

The block of profile disciplines (PD) includes disciplines of the university component (UC) – 34 credits and elective components (EV) - 30 credits.

Additional types of training (ATT) – 8 credits, which include the Final certification.

The criterion for the completion of the educational process is the development of 240 credits by a student.

The MEP consists of 17 modules.

### Social partners:

Oralzhanov A.A. – teacher of NVP, KSU "Regional specialized Lyceum "BILIM-INNOVATION" for gifted children of Semey city";

Nurbekov B.M. – teacher of NVP, KSU "Secondary school No. 4";

Tusupov S. A. is a teacher of NVP, KSU "Secondary school No. 5".

### **The purpose of the educational program**

Preparation of qualified teaching staff for initial military education with high social and civil responsibility, capable of carrying out professional activities in the following areas: the formation of fundamental knowledge, skills and competencies required in professional activities, the formation of environmental, physical and ethical, legal culture and thinking culture, language training, the formation of human and social and personal values.

### **Expected results of the educational program (formed learning outcomes):**

**ON1** - Analyze anatomical data and physiological processes occurring in the human body during muscular and athletic activity and apply this knowledge when performing physical exercises in the process of various sports.

**ON2** – Demonstrate knowledge of the main provisions and categories of modern psychological and pedagogical science, age physiology and school hygiene, use in practical pedagogical activity skills in the application of methods and technologies of educational activities and inclusive education in accordance with the age characteristics of students, as well as in the management of the holistic pedagogical process of the school; comply with modern requirements for personal and professional qualities of teachers; to manage the behavior of students, motivating their educational and cognitive activities, to promote their personal growth.

**ON3** – To able to use the state (Russian) and foreign languages in professional activities, scientific and practical work, in communication with foreign colleagues, for self-educational and other purposes.

**ON4** – Demonstrate knowledge of the concept of a modern rule of law state in order to instill skills in financial literacy, entrepreneurship, leadership, and receptivity to innovation based on scientific research while adhering to the principles of academic integrity and ensuring safety standards..

**ON5** – Organize and carry out work on civil defense and emergency situations. Define all types, tasks and responsibilities of the Armed Forces of the Republic of Kazakhstan, discuss the main categories, principles, methods and forms of organization of the educational process used in the field of initial military training and introduce students to the system of social values.

**ON6** – To carry out various types of planning of the educational process and develop methodological support based on them in accordance with the set goals; to develop educational and methodological materials based on normative documents in the field of education; to design an individual trajectory of students' development taking into account their individual characteristics; to analyze their professional qualities and best pedagogical practices; to organize and conduct training sessions and events on military-patriotic education, drill, the work of military–technical circles and sections based on effective teaching methods using a system of criteria-based assessment of students and monitoring their progress.

**ON7** - Apply knowledge and understanding at a professional level, formulate arguments and solve problems in the relationship with students, based on the moral norms of behavior specified in the provisions of the general military regulations, and conduct pedagogical work in the following areas: legal, educational, professional, analyzing historical and modern data of military art.

**ON8** – Organize events within the framework of the educational process, using the skills of social and communicative interaction with various professional communities.

**ON9** – To broadcast in the educational process information in the field of fire training and operation of small arms, ammunition and imitation means, while using, in his further training, also self-learning skills in the studied area; is able to organize and teach students the basics and rules of shooting and safe handling of weapons, instilling the ability to self-study students.

**ON10** – Apply knowledge of military topography and tactical and technical characteristics of weapons and equipment of the Armed Forces of the Republic of Kazakhstan and an understanding of the relationship of this information with the basics of office work and the procedure for handling secret documents when organizing and conducting various events with students.

**ON11** – Apply medical knowledge and skills in the field of therapeutic and health-improving physical culture and sports activities for carrying out therapeutic and preventive measures with various groups of the population.

**ON12** – To use information technologies, including artificial intelligence technologies, in teaching activities; to explain information about the application of modern achievements of military robotics in the Armed Forces of the Republic of Kazakhstan..

**ON13** – Use the means of physical culture and various sports to preserve and strengthen health in the course of professional activity and maintain the necessary level of physical fitness of your body and the organisms of students and pupils.

**ON14** – To know the methods of scientific research and academic writing and apply them in the field under study; to organize joint and individual research activities of students, including those with special educational needs, using the latest scientific data of domestic and foreign scientists..

In order to create special conditions for people with special educational needs to receive education, the graduate's competence model is supplemented with professional competencies that ensure the adaptive nature of the main educational program. To this end, courses for the formation of the ability of persons with special educational needs to successfully socialize in society and actively adapt to the labor market, taking into account the characteristics of the disease, are introduced into the catalog of courses of the additional educational program "Minor".

## 2. The graduate's competence model

The learning outcomes are determined on the basis of the Dublin descriptors of the first level (Bachelor's degree) and are expressed through competencies.

**Competence** is the possession of a certain competence, the availability of knowledge, skills and abilities necessary for effective activity in a certain professional field.

**Competence** is the ability to apply knowledge, skills, and successfully act on the basis of practical experience in solving professional tasks.

The competencies that a graduate should have after mastering the MOS are listed below.

### 1. Competence of general education (GE):

1) aimed at forming the ideological, civil and moral positions of the future specialist, competitive on the basis of knowledge of information and communication technologies, building communication programs in Kazakh, Russian and foreign languages, orientation to a healthy lifestyle, self-improvement and professional success;

2) form a system of general competencies that ensure the socio-cultural development of the personality of the future specialist on the basis of the formation of his ideological, civil and moral positions;

3) develop the ability to interpersonal social and professional communication in Kazakh, Russian and foreign languages;

4) contribute to the development of information literacy through the mastery and use of modern information and communication technologies in all spheres of their lives and activities;

- 5) form skills of self-development and education throughout life;
- 6) form a personality capable of mobility in the modern world, critical thinking and physical self-improvement;
- 7) to evaluate the surrounding reality on the basis of worldview positions formed by knowledge of the fundamentals of philosophy, which provide scientific understanding and study of the natural and social world by methods of scientific and philosophical cognition, to reveal the meaning of the content and specific features of the mythological, religious and scientific worldview;
- 8) to show a civic position based on a deep understanding and scientific analysis of the main stages, patterns, peculiarities of the historical development of Kazakhstan, to use methods and techniques of historical description to analyze the causes and consequences of events in the history of Kazakhstan;
- 9) assess situations in various spheres of interpersonal, social and professional communication, taking into account basic knowledge of sociology, political science, cultural studies, psychology, arguing their own assessment of everything happening in the social and industrial spheres, as well as synthesize knowledge of these sciences as a modern product of integrative processes;
- 10) to use scientific methods, methods of research of a specific science, as well as the entire socio-political cluster, to select a methodology, analyze and summarize the results of the study;
- 11) develop their own moral and civic position on the basis of social, business, cultural, legal and ethical norms of the Kazakh society;
- 12) to apply in practice knowledge in the field of social sciences and humanities, which has worldwide recognition, synthesize new knowledge and present it in the form of humanitarian socially significant products;
- 13) to engage in communication in oral and written forms in Kazakh, Russian and foreign languages, using language and speech means based on grammatical knowledge to solve the problems of interpersonal, intercultural and industrial (professional) communication, as well as to analyze information, actions and deeds of communication participants in accordance with the communication situation;
- 14) use various types of information and communication technologies in personal activities: Internet resources, cloud and mobile services for the search, storage, processing, protection and dissemination of information;
- 15) build a personal educational trajectory throughout life for self-development and career growth, focus on a healthy lifestyle to ensure full-fledged social and professional activities through methods and means of physical culture;
- 16) to know and understand the basic laws of the history of Kazakhstan, the basics of philosophical, socio-political, economic and legal knowledge, communication in oral and written forms in Kazakh, Russian and foreign languages;
- 17) apply the acquired knowledge for effective socialization and adaptation in changing socio-cultural conditions, possess the skills of quantitative and qualitative analysis of social phenomena, processes and problems.

## **2. Basic competencies (BC):**

- 1) демонстрировать знания основных положений и категорий современной психолого-педагогической науки, возрастной физиологии и школьной гигиены, использовать в практической педагогической деятельности навыки по применению методики и технологии educational activities and inclusive education in accordance with the age characteristics of students, as well as the management of the holistic pedagogical process of the school;

2) to observe pedagogical tact and rules of pedagogical ethics, while showing respect for the personality of students; to show commitment to the highest social values, to the ideas of humanistic pedagogy; to build the educational process taking into account the national priorities of Kazakhstan; to form a tolerant attitude to a different culture, to a different way of life;

3) is able to use the state (Russian) and foreign languages in professional activities, scientific and practical work, in communication with foreign colleagues, for self-educational and other purposes.

4) apply knowledge and understanding at a professional level, formulate arguments and solve problems in the relationship with students, on the basis of moral norms of behavior and conduct pedagogical work in the following areas: legal, educational, professional.

5) organize events within the framework of the educational process, using the skills of social and communicative interaction with various professional communities.

6) know the methods of scientific research and academic writing and apply them in the field under study; organize joint and individual research activities of students, including those with special educational needs, using the latest scientific data of domestic and foreign scientists.

7) conduct psychological and pedagogical research in order to identify the specifics of human mental functioning, taking into account the peculiarities of age stages, developmental crises and risk factors, in order to assess and analyze the processes of higher nervous activity; identify needs and difficulties in learning based on the results of diagnostics of individual characteristics of students.

8) conduct standard training sessions with the use of pedagogical technologies (including new ones - ICT); use modern techniques and means of knowledge control; develop their own approaches to the process of education and upbringing; independently design training sessions taking into account the age characteristics and needs of students; promote the development of a favorable educational environment to meet the needs of students.

### **3. Professional competencies (PC):**

1) the main attention should be paid to the formation and development of students of high moral, professional, combat, psychological qualities, organization and discipline necessary to fulfill the constitutional duty to protect the Motherland.

2) organize and carry out work on civil defense and emergency situations; determine all types, tasks and responsibilities of the Armed Forces of the Republic of Kazakhstan, discuss the main categories, principles, methods and forms of organization of the educational process used in the field of initial military training and introduce students to the system of social values.

3) to carry out various types of planning of the educational process and develop methodological support (educational materials) on their basis in accordance with the set goals; to organize and conduct training sessions and events on military-patriotic education, drill, the work of military-technical circles and sections with the involvement of representatives of professional communities, as well as to involve students in the system additional education.

4) to carry out pedagogical work in the following areas: legal, educational, professional, analyzing historical and modern data of military art.

5) to broadcast in the educational process information in the field of fire training and operation of small arms, ammunition and imitation means, while using, in his further training, also self-learning skills in the studied area; is able to organize and conduct training of students in the basics and rules of shooting and safe handling of weapons.

6) apply knowledge of military topography and tactical and technical characteristics of weapons and equipment of the Armed Forces of the Republic of Kazakhstan and understanding the relationship of this information with the basics of office work and the procedure for handling secret documents when organizing and conducting various events with students.



7) apply medical knowledge and skills in the field of therapeutic and health-improving physical culture and sports activities for carrying out therapeutic and preventive measures with various groups of the population.

8) use information technologies in professional activities in the field of initial military training; explain information about the application of modern achievements of military robotics in the Armed Forces of the Republic of Kazakhstan.

9) organize and conduct various types of classes, correctly identify and apply the most effective forms, methods and techniques of training, as well as skillfully handle modern means of technical support; forms general academic skills and abilities.

10) analyze anatomical data and physiological processes occurring in the human body during muscular and other activities and apply this knowledge when performing physical exercises.

**Table 1. The sequence of mastering disciplines in the process of forming special competencies**

	Competencies	The list of compulsory, elective disciplines and the sequence of their study		Expected results
		List of disciplines	The sequence of their study	
1	Professional	Anatomy the basics of sports morphology and biomechanics	3rd semester	To know: the basics of anatomy with the basics of sports morphology; basic concepts (terminology) of human anatomy, sports morphology and biomechanics; general signs of the structure of organ systems as a whole; morpho-functional characteristics of various body systems and their departments; the structure of the musculoskeletal system; biomechanics of posture and various sports movements; Be able to: analyze and synthesize the studied material; identify and reveal the cause-and-effect relationships of the formation of the human body; determine the structure of various muscle groups; Skills: to have the skills to improve professional skills; self-study of literary data on a specific topic; use of the knowledge gained in practice, in the subsequent study of other disciplines and in further work in the specialty; schematic representation of the structure of human body systems./
		Human anatomy		Know: terminology of human anatomy; anatomical structure of the human body and its systems, anatomical and morphological mechanisms of adaptation to physical exertion; Be able to: apply knowledge of anatomy in professional activities; determine anthropometric indicators, evaluate them taking into account the age and gender of students; Skills: competently use knowledge about the structure of the human body, about the activity of the central nervous system and organs of internal secretion; determine the impact of physical exertion on the human body.
		Fundamentals of basic military training	3rd semester	To know: the basics of legislation in the field of defense and national security; the basics of military service and military duties; the basics of military drill; the basics of tactical and fire training; the basics of military topography; the basics of primary pre-medical care in emergency situations of a peaceful and military nature; the basics of civil defense. Be able to: explain the main tasks and directions of development, equipment and modernization of the Armed Forces of the Republic of Kazakhstan; be able to explain the basics of legislation in the field of defense and national security. Skills: master the conceptual apparatus in the field of initial military training.

		Office work and secret documents in the Armed Forces of the Republic of Kazakhstan		<p>To know: record keeping in military units; the concept and legal basis for ensuring the regime of secrecy, secret and unclassified record keeping; the basic rules of secret record keeping in state bodies; the skills of official correspondence.</p> <p>Be able to: understand the problems of ensuring the secrecy regime, secret and unclassified office work; correctly determine the classification of secrecy, produce, receive, transmit and forward documents that constitute a state secret;</p> <p>Skills: skills of compliance with the secrecy regime; skills of creating and correctly processing documents that constitute a state secret; skills of compliance with the requirements of the secrecy regime.</p>
		General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	3rd semester	<p>To know: general military regulations of the Armed Forces of the Republic of Kazakhstan, the procedure for military service, general rights, duties, responsibilities of military personnel and the basics of drill training; planning, preparation, organization of drill training.</p> <p>Be able to: use knowledge about the general military regulations of the Armed Forces of the Republic of Kazakhstan and organize drill training.</p> <p>Skills: using the acquired knowledge in practice; performing drill techniques on the spot and in motion with and without weapons; organizing and conducting practical drill training.</p>
		Basics of military patriotic education	4th semester	<p>To know: the system of military-patriotic education at the present stage and its history, using social and communicative interaction; information about specialized classes in the system of military-patriotic education, the system of extracurricular activities of military-patriotic orientation at school.</p> <p>Be able to: analyze and apply knowledge about military-patriotic education and comprehensive training of students for military service, to fulfill their duty to protect.</p> <p>Skills: to improve professional skills using knowledge about the system of military-patriotic education in educational institutions.</p>
		Methods of conducting field studies	4th semester	<p>To know: the regulatory framework for the organization and conduct of training and field assemblies; the methodology for conducting training and field assemblies; the execution of documentation during training and field assemblies; information on the development of a plan for mass sports activities during the period of training and field assemblies; the methodology for setting goals and objectives for the personnel of the assemblies.</p> <p>Be able to: instruct students participating in military-field training camps; use modern methods and technologies for organizing educational activities; conduct military-patriotic educational activities at training and field training camps; be able to organize and conduct training and field training camps.</p> <p>Skills: development of a plan and other necessary documentation at the stage of</p>

			<p>planning and conducting training and field meetings./</p> <p>To know: the basics of drill training and the pedagogical skills of the commander methods of drill training; methods of planning, preparation, organization of drill training; methods of instruction; drill techniques and movements; to know the procedure for conducting classes in a company and single drill; information about conducting drill inspections and competitions.</p> <p>Be able to: teach the technique of performing a reception (action); train students in performing drill techniques (actions); be able to instruct; be able to organize drill classes.</p> <p>Skills: command (commanding) voice in the management of the formation; organization of their own activities, based on the goals and ways to achieve it; planning, preparation and organization of drill training.</p>
	Methods of teaching drill classes		
	Fire training	4th semester	<p>To know: the purpose, general devices and combat characteristics of small arms and sports weapons, concepts and basic provisions for the maintenance of small arms, armament complexes of combat vehicles, grenade launchers, hand fragmentation and anti-tank grenades in constant combat readiness, to know security measures when handling weapons</p> <p>Be able to: prepare and use small arms and sports weapons</p> <p>Skills: actions when performing techniques and rules of firearm shooting./</p>
	Modern firearms		<p>To know: types and systems of modern small arms; purpose, combat properties, technical characteristics of modern weapons of various countries of the world; to know domestic samples of modern small arms and samples of weapons in service in the Army of the Republic of Kazakhstan.</p> <p>Be able to: the ability to understand and use visualizations (diagrams, tables) for the effective use of modern firearms; the ability to find information in various sources.</p> <p>Skills: have the skills to use information about modern firearms in the educational process./</p>
	Tactical training	4th semester	<p>To know: the basics of modern combined arms combat, about the management of units, the actions of a soldier in battle.</p> <p>Be able to: correctly conduct observations; use the knowledge gained in practice; correctly take the position for shooting.</p> <p>Skills: tactical training and skillful possession of the acquired knowledge in practice./</p>
	Military topography		<p>To know: to know and understand the ways of measuring distances and orientation on the terrain on the map and without a map; drawing up official graphic documents, maps in the interests of performing operational combat and service tasks.</p> <p>Be able to: determine coordinates; read topographic maps and perform the simplest</p>

			<p>measurements on them; determine your location, navigate the terrain on the map and without a map.</p> <p>Skills: skills, techniques and necessary tools of complex geographical analysis; methods of analysis of cartographic material; skills of orientation on the terrain.</p>
		Human physiology	<p>4th semester</p>
		Human development	
		Fundamentals of physical education of military personnel	<p>5th semester</p>
		The basics of military morality	
			<p>To know: basic physiological concepts and terms; physiological characteristics of the main systems of human organs; the work of all organs of systems under physical exertion in various activities.</p> <p>Be able to: evaluate and explain the patterns of formation and regulation of the main forms of behavior of the organism depending on environmental conditions.</p> <p>Skills: must master the basic methods, techniques, means and methods of research to assess the physiological state of various groups of students;</p>
			<p>To know: the periodization and characteristics of the main stages of postnatal ontogenesis; social adaptation of a person; the main factors affecting human growth and development.</p> <p>Be able to: apply the acquired knowledge in professional activities;</p> <p>Skills: must master the basic methods, techniques, means and methods of human research in various periods of the postnatal period of ontogenesis.</p>
			<p>To know: means, methods and forms of physical training of military personnel; the impact of physical training on improving the military-special preparedness of military personnel; features of physical training in a military educational institution; various modern concepts in the field of physical culture.</p> <p>Be able to: adhere to a healthy lifestyle; independently maintain and develop basic physical qualities in the process of physical exercises; carry out the selection of necessary applied physical exercises to adapt the body to various working conditions and specific environmental influences.</p> <p>Skills: application of theoretical knowledge and practical skills when using modern means and methods of motor development of military personnel; possess means of independent, methodically correct use of methods of physical education and health promotion aimed at achieving the proper level of physical fitness to ensure full-fledged social and professional activities.</p>
			<p>To know: the theoretical foundations of military moral education, the main directions and value bases of moral development and education of students, information about military honor and the performance of military duty, the influence of traditions on the moral appearance of a serviceman; to know the role and significance of the moral element in military affairs.</p> <p>Be able to: use the rules and norms of behavior, skills and habits of highly moral behavior; be able to respect the dignity of others and protect their dignity.</p> <p>Skills: self-discipline, disciplined, tactful, competent and sustained behavior in</p>

			various situations; possess the skills to develop forms and methods of work of a teacher on the organization and conduct of military-patriotic events in educational institutions.
		Civil Defense and Emergencies	To know: the civil defense system in the Republic of Kazakhstan, the regulatory and legal provision of civil defense, the organization of emergency rescue and other urgent work in the foci of defeat; the rights and obligations of citizens in ensuring safety during natural actions and man-made disasters. Be able to: apply means of individual and collective protection; organize events in the field of civil defense in an educational institution. Skills: ensuring safety in specific dangerous situations of various kinds; applying the acquired knowledge and skills in professional activities./
		Fundamentals of anti-terrorist training of the population	5th semester To know: signs of terrorism, motives, their goals, causes and conditions conducive to the commission of terrorist acts; the mechanism for planning and carrying out measures to ensure anti-terrorist protection; to know recommendations to the public on behavior in the event of terrorist acts and personal security measures in the face of terrorist threats. Be able to: navigate the anti-terrorist legislation; teach the population the basics of terrorism prevention; be able to use knowledge about personal security in the face of terrorist threats. Skills: to know the ways of rational choice of methods of protecting the population from terrorist activities.
		Professional Kazakh (Russian) language	5th semester Know:- professional vocabulary and terminology;- the specifics of oral communication in the professional field;- linguistic features of oral and written communication;- features of business communication and business etiquette. Be able to:- use the Russian language in interpersonal communication and professional activities;- to carry out business communication and conduct business conversations on professional topics;- to make out and transfer the necessary information in writing;- explain your point of view and critically evaluate the provisions put forward; - create your own statements, essays, etc.:- apply business etiquette in speech. Own:- skills of expressing one's thoughts and opinions in interpersonal and business communication in Russian;- professional terms and concepts; - analysis of professional text;- information competence: the ability to work with a book, textbook, reference literature, dictionaries, find the necessary information.
		Military technical and engineering training	5th semester To know: about military engineering training in the system of military formations; overcoming engineering barriers; management and communication in the system of military formations; organization of radio communication, communication by wire means; military technical training.

			<p>Be able to: apply knowledge of the technical characteristics of weapons and equipment of the Armed Forces of the Republic of Kazakhstan in the organization and conduct of various events.</p> <p>Skills: possess engineering training skills.</p>
	Methods of teaching basic military training	5th semester	<p>To know: forms and methods of conducting classes in military disciplines, planning of NVP in secondary educational institutions; organization and conduct of initial military training in secondary educational institutions; methods of conducting training sessions, circles and sections and preparation of methodological support.</p> <p>Be able to: carry out various types of planning of the educational process and develop methodological support based on them in accordance with the set goals; organize and conduct training sessions and the work of military – technical circles and sections.</p> <p>Skills: have the skills of planning the educational process and developing methodological support for the educational process.</p>
	Extremism and terrorism as a threat to national security	6th semester	<p>To know: the theoretical foundations of terrorism and extremism; the legal foundations of the fight against terrorism and legislative and regulatory support for the fight against extremism; the foundations of Kazakhstan's anti-terrorist policy; the peculiarities of the national security of the Republic of Kazakhstan and international experience in countering terrorism and extremism.</p> <p>Be able to: analyze the most important and significant problems in the field of prevention of crimes of terrorist and extremist orientation; use the theoretical knowledge gained while mastering practical skills in professional activity.</p> <p>Skills: has a culture of thinking, is capable of generalization, analysis, perception of information, setting goals and choosing ways to achieve it; has the ability to analyze socially significant problems and processes; has the skills of fluency in legal concepts and categories in the field of combating terrorism./</p>
	Terrorism and security		<p>To know: the basics of the security of the individual, society and the state; features of national security in the modern world; the concept of terrorism; the essence of terrorism, its types, types and goals; rules of conduct in the event of a threat of a terrorist act; the organization of the fight against terrorism in the Republic of Kazakhstan; causes, factors of the emergence and activation of terrorist organizations.</p> <p>Be able to: understand the essence and forms of national security; apply the skills of analyzing modern national security systems; identify goals, objectives, causes, factors of terrorism.</p> <p>Skills: to master the terminological apparatus of this discipline; to apply the acquired skills in practice.</p>
	Military-	6th semester	To know: the main ways of performing tasks by the reconnaissance group; the

		reconnaissance and search work on the ground		<p>specifics of the search on the ground; the methodology of conducting search operations; information on tactical and engineering reconnaissance; methods of organizing, conducting search and rescue operations of search and rescue activities in the field of tourism, as well as for the purpose of surveying settlements; the importance of working with a metal detector and other types of devices; know the documentation in the search party.</p> <p>Be able to: use the methodology of conducting search operations on the ground; organize and conduct search expeditions, hikes in order to survey settlements.</p> <p>Skills: to master the terminological apparatus of this discipline; to apply the acquired skills in practice./</p>
		Information technology in school		<p>To know: technical and technological aspects of the implementation of information processes in education; modern information technologies used in education; techniques and methods of using information technology tools in various types and forms of educational activities; methods of using multimedia technologies and information technologies, including artificial intelligence technologies in education; on the use of databases and information systems in education; legal aspects of the use of information technology, security and information protection issues.</p> <p>Be able to: apply interactive learning technologies in the educational process: interactive whiteboards; use modern information and communication technologies, including artificial intelligence technologies in the process of educational activities.</p> <p>Skills: to master the methodology of using information technology in the subject area; skills of working with software tools for general and professional purposes.</p>
		Professionally-oriented foreign language	6th semester	<p>Know:- lexical material on the topics of this discipline;- regulatory requirements for registration (official letter, essay, etc.);- improve pronunciation skills;- develop productive and receptive lexical and grammatical skills;-to improve the skills of dialogic speech of a general nature associated with situations of everyday and professional communication;- develop listening skills (with a full understanding of what they heard);- develop and improve writing skills;- improve the skills of introductory, studying, viewing and search reading.</p> <p>Be able to:-automate the technical skills of reading to oneself;- develop the ability to transfer scientific information and literature of a socio-political nature;- develop the skills of monologue (prepared) speech - the deployment of the thesis;- master reversed reading aloud of the prepared message;- teach referencing skills.</p> <p>Own:- complexity in solving practical, educational, educational and developmental goals (at the same time, practical goals act as leading ones);- communicative orientation of the learning process.</p>
		Physiology of sports	6th semester	<p>To know: key concepts and complexes of scientific knowledge on physiology. fundamentals of the influence of physical exertion on the body; fundamentals of the</p>



			<p>physiology of sports (athletics, skiing, speed skating, swimming, volleyball, basketball, football, weightlifting, wrestling, boxing, fencing, etc.); physiological characteristics of the functional state of the body during sports activities; the work of all organs of the systems during physical exertion in various sports.</p> <p>Be able to: analyze physiological states and processes occurring during muscular and athletic activity; determine the place of specific exercises in classifications of physical exercises and sports; analyze the characteristics of reactions of physiological functions during exercises of various nature.</p> <p>Possess skills: is able to apply a set of skills for physiological control and independent analysis of the athlete's condition, decision-making during sports selection according to physiological indicators and for correction of physical exertion in case of incorrect application./</p>
		Physiological foundations of physical education	<p>To know: the physiological basis of the classification of physical exercises, the physiological characteristics of the functional states of the body during muscle activity, the physiological characteristics of the lesson, the physiological characteristics of the main types of physical exercises that form the basis of the school curriculum for physical culture.</p> <p>Be able to: use the accumulated knowledge to control the state of your body, the need for regular physical fitness classes; take into account the age and morphofunctional characteristics of students of different genders and ages, their level of physical and special physical fitness, health status when choosing methods of training and education, forms of classes and methods adequate to the tasks.</p> <p>Skills: possess practical skills of studying the level and features of the functional state of students; skills of rational use of educational, laboratory and special equipment.</p>
		Military - sports games	<p>To know: the characteristics of military sports, the rules of competitions in military sports, the methodology for conducting military sports games with people of different ages.</p> <p>Be able to: conduct military sports games with people of different ages; demonstrate individual exercises, make a set of exercises.</p> <p>Skills: to master the methodology of teaching motor actions and exercises of military sports of people of different age groups;. the ability to compile methodological documentation./</p>
		Types of military equipment and their use	<p>To know: military equipment, which is in service with the Armed Forces of the Republic of Kazakhstan; the purpose and principle of operation of military equipment, basic technical systems and mechanisms.</p> <p>Be able to: determine the types and types of military equipment by external signs; talk about the purpose and technical characteristics of military equipment.</p>
			6th semester

			Skills: possess information about various types of military equipment and present information using visual material.
		History of military art and armed forces of the Republic of Kazakhstan	6th semester
		Educational and ideological work in the Armed Forces of the Republic of Kazakhstan	
		Elements of shooting	7th semester
		Basics of shooting from small arms	
		Fundamentals of military pedagogical	7th semester

		culture		<p>psychological and pedagogical erudition, political maturity. teacher and officer; directions of work of the teacher –organizer of the NVP on the guidance of self-education and self-education of trainees.</p> <p>Be able to: form a professional and pedagogical personality; use knowledge about pedagogical creativity in the development of original methods of influencing the personality of a warrior and a military team in the course of educational work when performing various pedagogical tasks.</p> <p>Skills: to possess the skills of continuous improvement of pedagogical skills; skills of self-study and development of their psychological and pedagogical thinking./</p>
		Scientific - pedagogical research		<p>To know: the essence of the methodology of scientific and pedagogical research and their methods; the features of the research activity of the teacher-researcher and the basics of scientific and pedagogical research; the methodology of the experiment and modeling in the pedagogical experiment.</p> <p>Be able to: observe and conduct questionnaires; conduct pedagogical experiments and process the data obtained; design scientific papers; be able to present the results of their research.</p> <p>Skills: working with scientific literature; skills of writing theses, taking notes, quoting, abstracting.</p>
		Athletics	7th semester	<p>To know: general and special physical training in athletics; the methodology of athletics training and the basics of professional training of an athletics coach; classification and characteristics of athletics exercises; rules for the organization and conduct of athletics competitions.</p> <p>Be able to: methods of improving their physical and functional fitness; apply the knowledge gained in practice; conduct training sessions and athletics competitions taking into account the characteristics of students based on the provisions of didactics, theory and methodology of physical culture and the requirements of educational standards.</p> <p>Skills: proficient in the technical elements of athletics, as well as techniques for explaining and demonstrating the main and auxiliary elements.</p>
		Basics of general and special training of military personnel		<p>To know: the basics of ensuring the security of military service; features of public–state, military-engineering, tactical, military–medical, physical training; features of applied physical training of military personnel.</p> <p>Be able to: assess the level of their preparedness and exercise conscious self-determination in relation to military activities.</p> <p>Skills: able to organize and conduct general and special training of students.</p>
		Therapeutic and preventive measures in military units	7th semester	<p>To know: features of medical examination and therapeutic and preventive nutrition; the main therapeutic and preventive means used for military personnel; features of the organization of medical examination of military personnel and daily medical</p>

				<p>supervision and examinations of the health of military personnel and in-depth medical examination of young recruits.</p> <p>Be able to: use the acquired knowledge in practice; talk about medical and preventive measures in military units.</p> <p>Skills: using the studied information to improve their professional expertise./</p>
		Fundamentals of medical knowledge		<p>To know: the concept of emergency conditions, causes and factors causing them; diagnostics and methods of first aid in emergency conditions; features of the use of a complex of cardiopulmonary resuscitation; patient care and the use of medicines; features of the use of first aid for injuries and injuries; characteristics of infectious diseases with the basics of microbiology.</p> <p>Be able to: measure blood pressure, body temperature; apply first aid techniques aimed at preventing pathological conditions and diseases; carry out primary measures aimed at increasing the likelihood of survival of the victim or reducing the risk of complications threatening his life and health; navigate among the main categories of the most common diseases, which is the basis for self-prevention of the occurrence of various painful conditions.</p> <p>Skills: measurement of blood pressure, body temperature; application of first aid to the victim.</p>
		Types of wrestling and hand-to-hand combat	7th semester	<p>To know: information about various types of wrestling and hand-to-hand combat; methods of teaching the basics of techniques of various types of wrestling and hand-to-hand combat with students of secondary schools; basic technical actions of martial arts; theoretical, methodological, professional and pedagogical information necessary for independent pedagogical mastery.</p> <p>Be able to: apply the theoretical knowledge gained in practice; independently plan the training process for various types of wrestling and hand-to-hand combat; improve their physical fitness indicators; improve the level of mastering the basic technique of hand-to-hand combat; observe the norms of personal hygiene and self-control; organize the training process in groups.</p> <p>Skills: to master the ways of improving their physical and functional fitness; the basic elements of fighting techniques and tactics and hand-to-hand combat./</p>
		Weapons and equipment of the ground forces		<p>To know: the history of the development of military equipment, its classification and purpose; characteristics of land military equipment; types of engines of land vehicles and the layout of land vehicles; the design and purpose of cars, armored personnel carriers, tankers, infantry fighting vehicles (amphibious assault).</p> <p>Be able to: identify various types of military equipment by external signs; talk about the principle of operation of technical means, systems and mechanisms, using visual materials.</p> <p>Skills: to master the terminological apparatus of this discipline; to apply the</p>

			acquired skills in practice.
		Military medical training	<p>To know: the procedure for carrying out medical and preventive measures in peacetime; the organization of medical activities of the Armed Forces of the Republic of Kazakhstan, tasks; information on the observance of personal and public hygiene of military personnel; methods of carrying out preventive measures of infectious diseases; characteristics of personal medical support of military personnel.</p> <p>Be able to: provide first aid in peacetime and wartime; assess the medical situation in various situations.</p> <p>Skills: to master the conceptual and terminological apparatus in the field of military medicine; the use of reference and normative-technical literature./</p>
		Healing Fitness	<p>To know: the basics of physical therapy; features of therapeutic physical culture in diseases of various systems of the human body; physical therapy for injuries of the musculoskeletal system; features of rehabilitation of military personnel after injuries and diseases of the musculoskeletal system; physical therapy for posture disorders, scoliosis and flat feet; physical therapy in pediatrics; features of therapeutic massage, sports massage, self-massage; general technique massage.</p> <p>Be able to: select exercises for solving special tasks for the most common diseases and injuries; conduct physical therapy classes independently for the most common diseases and injuries.</p> <p>Skills: self-study of literature data on a specific topic; skills of physical therapy classes; preparation of exercise therapy complexes for various diseases.</p>
		Basics of military robotics and information technology (IT)	<p>To know: fundamentals of robotics; basic types of parts connection; Fundamentals of mechanics, dynamics, kinematics, electrical engineering, pneumatics; design of complex devices; development of innovative technologies, computerization of production; characteristics of combat (military) robots and their varieties; characteristics of unmanned, remote-controlled, reconnaissance aircraft (helicopters), underwater vehicles and surface ships, minesweeping robots, sappers, patrolmen, scouts, infantrymen, robots for carrying military ammunition; features of the use of artificial intelligence.</p> <p>Be able to: select technical means (robots) to fulfill certain goals; be able to apply the acquired knowledge in the field of military robotics in practice; modernize and systematize additional education programs in the field of robotics, mechatronics, and scientific and technical creativity.</p> <p>Skills: possess the conceptual and terminological apparatus in the field of military robotics; possess the ability to perform experiments to verify their correctness and effectiveness of solutions; the ability to analyze and generalize.</p>
		Mechatronics and	To know: the basic concepts of mechatronics and robotics; the concept of

		Robotics		mechatronics as a new field of science and technology;. Automatic regulation and control systems; the place of mechatronic and robotic systems in the automation of technological processes; information devices and systems of mechatronic and robotic systems in the Armed Forces of the Republic of Kazakhstan; the concept of robot and manipulator; types of robot control systems. Be able to: select the necessary types of robotic and mechatronic systems; determine the methods and control systems for them; Skills: possess the ability to evaluate mechatronic and robotic systems for the suitability of solving a specific task; apply the results of mastering the discipline in professional activity.
		Outdoor games with shooting elements	8th semester	To know: the pedagogical significance of outdoor games and their characteristics; features of outdoor games with elements of shooting from various types of automatic weapons and other types of small arms and sports weapons; methods of organizing and conducting outdoor games with elements of shooting. Be able to: be able to plan, organize and conduct outdoor games with shooting elements; be able to use outdoor games as the main means for solving recreational, educational, educational tasks. Skills: master the basics of the technique of performing a set of physical exercises and mastering the technique of outdoor games with elements of shooting./
		Exploitation of small arms and ammunition		Know the rules for the safe handling of weapons, ammunition and imitation equipment in the classroom and during shooting, the operation of weapons. Be able to: comply with safety regulations when handling weapons and ammunition, observe; the order of maintenance of weapons. Skills: skills in preparing weapons for firing and their combat use, detecting and eliminating possible malfunctions and delays, its maintenance and compliance (fulfillment) of safety requirements when handling weapons and ammunition.

**Table 2. Sequence of mastering disciplines of social and professional interaction**

Course	Providing disciplines	Competencies	Expected result
1	History of Kazakhstan	Competence of general education	Know:- demonstrate knowledge and understanding of the main stages of history development of Kazakhstan; Be able to:- to correlate the phenomena and events of the historical past with the general paradigm of the world-historical development of human society through critical analysis;- be able to objectively and multy-sided comprehend the immanent features of the modern Kazakh model of development; Own:- possess the skills of analytical and axiological analysis in the study of historical processes and phenomena of modern Kazakhstan; - systematize and critically evaluate historical phenomena and the processes of the history of Kazakhstan

1	Foreign language	Competence of general education	<p>Know:- lexical minimum and language material of topics and subtopics in a given discipline (social and social and cultural spheres of communication).</p> <p>Be able to:- understand by ear not only individual phrases and frequently used words, but also more voluminous statements on topics directly related to it,- understand the main content of short simple content on the radio, at the airport, at the station; - understand when reading the content of short, simple texts, advertisements, brochures, menus, bus and train schedules, short simple personal letters, e-mails.</p> <p>- communicate in simple typical situations that require the exchange of information within the framework of familiar topics and activities, be able to talk about family, living conditions, training sessions;- write a simple letter of a personal nature, a note, an autobiography.</p> <p>Own:- understanding of foreign language dialogic and monologue speech within the framework of general cultural and professional topics; - a foreign language at a level that allows to carry out the main types of speech activity;- different ways of oral and written communication;- skills of adequate response in situations of everyday, academic and professional communication;- skills of listening, reading, writing.</p>
1	Kazakh (Russian) language	Competence of general education	<p>Know:- theoretical foundations of the course (language, its functions, forms of speech, text, its features, styles of speech, functional and semantic types of speech);- features of dialogic and monologue speech;</p> <p>- types of scientific information and the specifics of its implementation in a scientific text;- elements of structural-semantic analysis and semantic analysis of a scientific text, components of a speech situation, speaker's intentions.</p> <p>Be able to:- to carry out the correct choice and use of language and speech means for solving certain problems of communication and cognition based on knowledge of a sufficient amount of vocabulary, a system of grammatical knowledge, pragmatic means of expressing intentions;- compose everyday, socio-cultural, official and business texts in accordance with generally accepted norms, functional orientation, using lexico-grammatical and pragmatic material of a certain certification level that is adequate to the goal;- interpret the information of the text, explain in the scope of the certification requirements the style and genre specifics of the texts of the socio-cultural, socio-political, official business and professional spheres of communication;- participate in communication in various situations in different spheres of communication in order to realize their own intentions and needs (everyday, educational, social, cultural), declaring them ethically correct, meaningfully complete, lexico-grammatically and pragmatically adequate to the situation;- discuss ethical, cultural, socially significant issues in discussions, express their point of view, defend it with arguments, critically evaluate the opinion of interlocutors;- build speech behavior programs in situations of personal, social and professional communication in accordance with the norms of the language, culture, specifics of the sphere of communication, certification requirements;- request and communicate information in accordance with the situation of communication, evaluate the actions and deeds of participants, use information as a tool to influence the interlocutor in situations of knowledge and communication in accordance with certification requirements.</p> <p>Own:- the skills of producing oral and written speech in accordance with the communicative goal and the professional sphere of communication;- language skills in various situations of everyday, socio-cultural, professional communication;- skills of searching, processing information in Russian;- types of speech activity.</p>
1	Information and	Competence of	Know: What economic and political factors contributed to the development of information and communication

	communication technology	general education	<p>technologies; features of various operating systems, architecture; Be able to: identify the main trends in the field of information and communication technologies; se information resources to search and store information; work with spreadsheets, perform data consolidation, build graphs; apply methods and means of information</p> <p>Be able to: design and create simple websites; to process vector and bitmap images; to create multimedia presentations; to use various platforms for communication; calculate and evaluate performance indicators of supercomputers; use various forms of e-learning to expand professional knowledge; use various cloud services.</p> <p>Own: database structure development; designing and creating presentations; receiving data from the server; creating video files; working with Smart applications; working with services on the e-government website</p>
1	Sociology	Competence of general education	<p>Know:- patterns and stages of the historical process, the main historical facts, dates, events and names of world and domestic historical figures; - the main events and processes of national history in the context of world history</p> <p>Be able to: - critically perceive, analyze and evaluate historical information, factors and mechanisms of historical changes; - analyze civil and ideological positions in society, form and improve their views and beliefs, transfer philosophical worldview to the field of material and practical activities; - use various philosophical methods to analyze trends in the development of modern society, philosophical and legal analysis</p> <p>Own: - skills of a holistic approach to the analysis of society's problems; - methods of philosophical, historical and cultural studies, techniques and methods of analyzing the problems of society; - causal relationships in the development of Kazakhstan society; - the place of a person in the historical process and the political organization of society;- skills of respectful and careful attitude to the historical heritage</p>
1	Politicalology	Competence of general education	<p>Know:- the main stages of the development of political knowledge in the history of civilization;- schools and directions of modern political science;- political life of society;- the political system and its institutions;- the essence of political processes in the country and the world.</p> <p>Be able to: - analyze the features of political systems and the functioning of political institutions; - critically evaluate the theoretical approaches of political science;</p> <p>- identify the interrelationships and patterns of the political process;</p> <p>- compare political systems, institutions and actors in the cross-country and subnational context, based on the knowledge gained and the methods mastered.</p> <p>Own:- the skills (gain experience) of working with primary sources on the topics of the course; analysis of regulatory legal acts and other documents; search, processing and analysis of information; solving problems related to the assessment of the political course; working in groups, project activities, business games; public speaking; academic writing4 -the skills to express their thoughts and opinions in interpersonal and business communication in a foreign language;- the skills to extract the necessary information from the original text in a foreign language.</p>
1	Culturology	Competence of general education	<p>Know: - basic theories of culture, basic concepts of cultural studies; the main directions of the methodology of modern cultural analysis;- the history of the formation of world culture and civilization, theoretical features of basic cultural concepts, various interpretations of culture and civilization in world and domestic literature;- actual problems of the development of modern culture;- the idea of culture as a socio-historical phenomenon;- patterns of the development of world cultures, as well as the typology of the classification of cultures;-basic knowledge about the history of the most important cultures of mankind;- about the ways of acquiring, storing and</p>



			<p>transmitting the basic values of culture - about the diversity and self-worth of various cultures; - forms and types of culture, patterns of their functioning and development, the main cultural and historical regions; - the history of Kazakh culture, its place in the system of world culture and civilization</p> <p>Be able to:- identify the features of this culture, the dominant values in it;- explain the specifics of intercultural communication;- conduct independent professional activity in a dynamically changing multicultural society;- navigate the cultural environment of modern society;- explain the phenomenon of culture, its role in human life;- navigate cultural issues, independently understand the issues of the influence of cultural factors on the behavior of individuals;</p> <p>Own: - practical skills in the preservation and enhancement of national and world cultural heritage;- practical skills of practical use of knowledge and skills in taking into account the specifics of cultural behavior of various individuals and collectives in the modern conditions of the formation of civil society in the Republic of Kazakhstan.</p>
1	Psychology	Competence of general education	<p>Know: the meaning and place of psychology in the system of sciences; the main directions of personality development in modern psychology; personal values and meanings in professional self-determination; the relationship and mutual influence of the psyche and body; techniques and techniques of effective communication.</p> <p>Be able to: interpret basic psychological theories, concepts; use methods and mechanisms of emotion regulation in everyday life; identify patterns of behavior in a conflict situation and conduct self-diagnosis.</p> <p>Own: determination of individual psychological characteristics of personality, value-semantic representations in professional self-determination of personality; recognition of psychological impact and effective communication.</p>
1	Fundamentals of economic and legal knowledge	Competence of general education	<p>To know: methods of scientific research in economics, various theories about entrepreneurship, financial literacy and market economy, types of entrepreneurial activity, spheres of entrepreneurship, to master various quantitative and qualitative methods for creating the future of your own business, entrepreneurial calculations, analytical calculations and forecasts, the main provisions of the Constitution and the current legislation of the Republic of Kazakhstan, the system of public administration bodies and their terms of reference, the mechanism of interaction of substantive and procedural law, the essence of corruption and the reasons for its origin, current legislation in the field of anti-corruption.</p> <p>Be able to: analyze and justify the reality of business plans, market segmentation, competently and professionally assess the market situation for the organization of their business, creatively approach the solution of various economic tasks, possess practical skills of independent economic work in the field of entrepreneurship, calculate your personal budget, have clear background information and fast and correct orientation to economic indicators, analyze events and actions from the point of view of the field of legal regulation and be able to refer to the necessary regulations, navigate the current legislation, using the law to protect their rights and interests, to use spiritual and moral mechanisms to prevent corruption.</p> <p>Skills: acquire practical skills in building graphs and diagrams illustrating various economic models, independent economic work in the field of entrepreneurship, quickly and correctly navigate the actual source information and estimated economic indicators, determine the levels of financial security, have the skills to identify problems of an economic nature in the analysis of specific situations and their solutions, taking into account the actions of economic patterns at the micro and macro levels, conducting discussions on legal issues, on the application of</p>

			norms in the modern period, analysis of the situation of conflict of interests and moral choice.
1	Fundamentals of scientific and environmental knowledge	Competence of general education	<p>To know: forms and methods of pre-scientific, scientific and extra-scientific cognition, modern approaches to socio-humanitarian knowledge and their commensurability; basic epistemological models, the nature of transformations of the concept of rationality; fundamentals of ecology and safe human activity in the habitat, environmental factors and their impact on living organisms, methods for identifying, eliminating the influence of harmful factors on humans and environment, and providing comfortable conditions for human life and activity.</p> <p>Be able to: formulate and solve problems that arise in the course of research and require in-depth professional knowledge; modify existing and develop new methods based on the tasks of a specific study; choose methods of protection from hazards in relation to the field of their professional activities and choose ways to ensure comfortable living conditions.</p> <p>Possess: the skills of conducting independent research and scientific and pedagogical activities that require extensive education in the appropriate direction; the ability to apply methodological and methodological knowledge in conducting scientific research; the skills to ensure the safety of life in professional activities, living conditions and in emergency situations.</p>
1	Basics of life safely and ecology	Competence of general education	<p>To know: the legislative framework for life safety and environmental control, as well as methods for identifying, eliminating the influence of harmful factors on humans and the environment, and ensuring comfortable conditions for human life and activity;</p> <p>Be able to: systematize safety standards for use in professional activities; choose methods of protection from hazards in relation to the field of their professional activities and choose ways to ensure comfortable living conditions;</p> <p>Skills: possess the skills to ensure the safety of life in industrial, domestic conditions and in emergency situations, the skills of first aid.</p>
1	Developmental physiology and school hygiene	Basic	<p>Know: • general patterns of growth and development of the body; • age-related features of physiology and hygiene of all systems of the child's body; • hygienic requirements for buildings, classrooms, the air environment, lighting of classrooms and equipment of schools; • hygienic foundations of the organization of the educational process and the daily routine for children of six years of age; • fundamentals of the health of children and adolescents, familiarization with the rules of a healthy lifestyle;</p> <p>Be able to: • apply methods and means of cognition, training and self-control for their intellectual development, cultural level improvement, professional competence, preservation of their health, moral and physical self-improvement;</p> <p>Skills: possess skills • to use knowledge about the modern natural science picture of the world in educational and professional activities; • organization of educational work with children and adolescents, taking into account the anatomical and physiological characteristics of the body in different age periods, as well as taking into account hygienic requirements for buildings and classrooms, furniture and equipment of schools; • ensuring the protection of life and health of students in the educational process and extracurricular activities; • countering adverse environmental factors by introducing children and adolescents to the formation of a healthy lifestyle and health promotion.</p>

1	Pedagogy	Basic	<p>To know: - about the role of science and education in public life; - about current trends in the global educational space; - about the professional competence of a teacher of 12-year secondary education; - about the social purpose and role of a teacher in modern society;- about the social meaning and content of their future specialty;- about the object of the future teacher's activity; - about the factors of continuous professional and personal formation of the teacher;- about the education system of the Republic of Kazakhstan;- theoretical and methodological foundations of pedagogy and the history of its development, the world pedagogical heritage; - theory and practice of the holistic pedagogical process; - technology for the implementation of the pedagogical process;</p> <p>Be able to: - carry out pedagogical communication and interaction in the pedagogical process; - to design and carry out educational work in accordance with the laws, educational mechanisms of the pedagogical process; - carry out diagnostics of the educational process in the classroom according to the main characteristics (variables) and predict its further development; - formulate educational tasks, choose activities adequate to these tasks, forms and methods; - develop their own approaches to the process of education and upbringing, comprehend the trends in the development of educational systems at different stages of history; Skills: possess the skills of: - research activities; - pedagogical communication and pedagogical techniques; - organization of subject-subject interaction of all participants in the pedagogical process; - the use of pedagogical technologies in the educational process; - application of the acquired knowledge during the period of professional practice.</p>
1	Psychology and human development	Basic	<p>To know: - the history of the development of the subject of psychology and human development and Soviet and foreign psychology; - characteristics of psychology and human development as a science, its methods and tasks; dynamics of development and structure of personality and human activity; - To have an idea of the psychological characteristics of a person's personality in ontogenesis and phylogeny.</p> <p>Be able to: - create a methodological basis for monitoring the progress, completeness of the content and conditions of the child's mental development;</p> <p>Skills: - use the acquired knowledge in practice.</p>
1,2	Physical culture	Competence of general education	<p>To know: - the role of physical culture in the development and training of a specialist; - fundamentals of the state policy of the Republic of Kazakhstan in the field of physical culture and sports; - theoretical and methodological foundations of physical culture; - the main achievements of the Republic of Kazakhstan in the field of physical culture; - hygienic and organizational bases of physical culture and sports.</p> <p>Be able to: - use practical skills and abilities in life that ensure the preservation and strengthening of health, development and improvement of psychophysical abilities and qualities; - use physical culture, sports and wellness activities to achieve life and professional goals; - apply the rules for the safe conduct of physical exercises and sports.</p> <p>Possess: - the skills of organizing mass sports competitions; - exercises for professional and pedagogical physical training, general physical training, special physical training, as well as apply special games in practice; - a system of practical skills that ensure the preservation and strengthening of health, development and improvement of psychomotor abilities and qualities.</p>
2	Philosophy	Competence of general education	<p>Know: -basic philosophical concepts and categories, patterns of development of nature, society and thinking; - the essence of philosophical categories, terminology of philosophy and the structure of philosophical knowledge, functions of philosophy methods of philosophical research; - the place and role of philosophy in public life;</p>

			<p>Be able to: - to use the basics of philosophical knowledge to form a worldview position; - analyze ideological, socially and personally significant philosophical problems; - to orient oneself in the system of philosophical knowledge as a holistic view of the foundations of the universe and the prospects for the development of planetary society; - to understand the characteristic features of the modern stage of philosophy development</p> <p>Own: - the skills of philosophical analysis of various types of worldview; - the skills of philosophical thinking to develop a systematic, holistic view of the problems of society; - the skills of analyzing texts with philosophical content</p>
2	Management in education	Basic	<p>To know: - theoretical and methodological foundations of management in education: functions, patterns, principles, methods of pedagogical management, system-forming factors of pedagogical management, the history of the development of management concepts in education: features of school management based on systematic, humane, competence and technological approaches: - fundamentals of the management of the holistic pedagogical process of the school; -conditions for effective management of pedagogical by the school staff</p> <p>Be able to: - apply the acquired theoretical knowledge in the practice of managing an educational institution; - to carry out diagnostic, analytical and design activities within the framework of a unified management system of an educational institution; - to design and carry out various types of management activities; - to use the skills of a systematic, humane, human-centered, competence-based and technological approaches to the management of an educational institution; - to assess the quality of management activities from the standpoint of the holistic pedagogical process of the school as an open pedagogical system; - to be involved in the methodological work of an educational institution, analyze and evaluate the effectiveness of the educational process using modern methods of assessing the quality of teaching, education and development of students, to apply methods of work to overcome the limitations of pedagogical management.</p> <p>Skills: possess theoretical knowledge on the basics of pedagogical management in accordance with modern requirements; skills in designing and analyzing the management of the holistic pedagogical process of the school.</p> <p>- skills of research activity; - skills of pedagogical communication; - skills of organizing subject-subject interaction of all participants in the pedagogical process; - skills of applying the acquired knowledge during the period of professional practice, as well as in solving professional tasks; be flexible and mobile in various conditions and situations related to the activities of the management of the CPP.</p>
2	Theory and methods of educational work	Basic	<p>Knowledge: - about the essence, goals and objectives of educational work in school and classroom; - about the modern concept of education in the Republic of Kazakhstan and educational systems of school and class; - about the system and activities of the class teacher; - on the forms and methods of pedagogical interaction and cooperation of the subjects of the educational process-teachers, students, parents; - about the patterns of development and methods of forming a children's team; - about the forms, methods, means and techniques of educational work in various directions, - about modern technologies of education; - on the diagnosis of the results of educational work.</p> <p>Be able to: - model, plan and conduct educational work in the classroom, school with a focus on the formation of a citizen of Kazakhstan on the basis of universal and national values; - choose types of education taking into account its goals and objectives, as well as age and individual characteristics of pupils; - variatively apply methods and techniques of education, select and use means, organizational forms of education; - to carry out</p>

			<p>pedagogical guidance and management of the process of forming a class team and organizing its activities; - to organize class hours, CTD and educational events of various directions; - to choose and use innovative technologies of education, including technologies of re-education of difficult children; - choose forms of effective cooperation with parents; - organize work with gifted children; - plan, organize and conduct career guidance work in the classroom and school; - study the effectiveness of the educational process and methodically ensure it.</p> <p>Skills: - possession of theoretical knowledge on the basics of pedagogical management in accordance with modern requirements; -the skills of designing and analyzing the management of the holistic pedagogical process of the school; - the skills of research activities; - the skills of pedagogical communication; - the skills of organizing subject-subject interaction of all participants in the pedagogical process; - the skills of applying the knowledge gained during the period of professional practice, as well as in solving professional tasks; be flexible and mobile in various conditions and situations related to the activities of the management of the CPP.</p>
2	Inclusive education	Basic	<p>To know:- The Law of the Republic of Kazakhstan "On social and medical-pedagogical correctional support for children with disabilities"; other international and republican legal and by-laws regulating the activities of general education organizations operating in inclusive education;- the essence, content, structure of educational processes and systems, pedagogical technologies and innovative processes in the field of inclusive education;- the main directions and prospects for the development of inclusive education and pedagogical science;- the essence and specifics of the professional activity of teachers of general education organizations and teachers-defectologists in the process of inclusive education;- concepts of psychological and pedagogical assistance and systems of correctional and pedagogical influence.</p> <p>Be able to:- to find, analyze and systematize information on the organization of inclusive education;- to use in professional activity the main international and domestic documents on the rights of the child and the rights of persons with disabilities to receive a quality education;- design work to inform the public about the problems of education of persons with disabilities;- to design the directions of correctional and pedagogical influence in the conditions of inclusive education, depending on the type of impaired development, the needs of the child, learning conditions, resources of the locality;</p> <p>Skills: organization and provision of optimal socio-environmental and educational conditions for children with disabilities in general education organizations.</p>

**Table 3. List of modules included in the educational program**

<b>Module No.</b>	<b>Name of the module</b>	<b>List of disciplines included in the module</b>	<b>Block</b>	<b>Semester</b>	<b>Volume of loans</b>	<b>Form of control</b>	<b>Total credits by module</b>
M.1	Instrumental and communication module	Foreign language	MC GE	1,2	10	Ex.	25
		Kazakh (Russian) language	MC GE	1,2	10	Ex.	
		Information and communication technology	MC GE	2	5	Ex.	
M.2	Socio-political knowledge module	Sociology	MC GE	1	8	Ex.	8
		Politicalology	MC GE	2		Ex.	
		Culturology	MC GE	1		Ex.	
		Psychology	MC GE	2		Ex.	
M.3	Module of historical and philosophical knowledge	History of Kazakhstan	MC GE	1	5	SE	10
		Philosophy	MC GE	3	5	Ex.	
M.4	Economic, legal, scientific and environmental knowledge	Fundamentals of economic and legal knowledge	UC GE	2	3	Ex.	5
		Fundamentals of scientific and environmental knowledge	UC GE	2	2	Ex.	
M.5	Health Promotion Module	Physical culture	MC GE	1,2,3,4	8	Diff.c.	8
M.6	Pedagogy, psychology and age-related features of human development	Developmental physiology and school hygiene	UC BD	2	3	Ex.	14
		Pedagogy	UC BD	1	5	Ex.	
		Educational (introductory) practice	UC BD	2	2	Diff.c.	
		Psychology and human development	UC BD	1	4	Ex.	
M.7	Pedagogical and educational process and its management	Management in education	UC BD	3	3	Ex.	11
		Theory and methods of educational work	UC BD	3	3	Ex.	
		Inclusive education	UC BD	4	3	Ex.	
		Psychological and pedagogical practice	UC BD	4	2	Diff.c.	
M.8	Human anatomy and physiology	Anatomy the basics of sports morphology and biomechanics / Human anatomy	CC BD	3	6	Ex.	17
		Human physiology / Human development	CC BD	4	5	Ex.	

		Physiology of sports / Physiological foundations of physical education	CC BD	6	6	Ex.	
M.9	Initial military training. Educational and scientific work	General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	UC PD	3	5	Ex.	26
		Fundamentals of basic military training / Office work and secret documents in the Armed Forces of the Republic of Kazakhstan	CC BD	3	6	Ex.	
		Basics of military patriotic education	UC PD	4	5	Ex.	
		History of military art and armed forces of the Republic of Kazakhstan / Educational and ideological work in the Armed Forces of the Republic of Kazakhstan	CC BD	6	5	Ex.	
		Fundamentals of military pedagogical culture / Scientific - pedagogical research	CC BD	7	5	Ex.	
M.10	Methods of teaching military training	Methods of conducting field studies / Methods of teaching drill classes	CC PD	4	3	Ex.	28
		Pedagogical practice	UC BD	5	6	Diff.c.	
		Methods of teaching basic military training	UC PD	5	4	Ex.	
		Industrial pedagogical practice	UC PD	8	15	Diff.c.	
M.11	Military-technical training	Tactical training / Military topography	CC BD	4	5	Ex.	18
		Military technical and engineering training	UC PD	5	5	Ex.	
		Military-reconnaissance and search work on the ground / Information technology in school	CC PD	6	5	Ex.	
		Basics of military robotics and information technology (IT) / Mechatronics and Robotics	CC PD	8	3	Ex.	
M.12	Public safety	Civil Defense and Emergencies / Fundamentals of anti-terrorist training of the population	CC BD	5	6	Ex.	11
		Extremism and terrorism as a threat to national security / Terrorism and security	CC PD	6	5	Ex.	
M.13	Professional languages	Professional Kazakh (Russian) language	UC BD	5	3	Ex.	6
		Professionally-oriented foreign language	UC BD	6	3	Ex.	
M.14	Physical education	Fundamentals of physical education of military personnel / The basics of military morality	CC BD	5	5	Ex.	21

		Military - sports games / Types of military equipment and their use	CC BD	6	6	Ex.	
		Types of wrestling and hand-to-hand combat / Weapons and equipment of the ground forces	CC PD	7	5	Ex.	
		Athletics / Basics of general and special training of military personnel	CC BD	7	5	Ex.	
M.15	Firearms and shooting from them	Fire training / Modern firearms	CC BD	4	5	Ex.	14
		Elements of shooting / Basics of shooting from small arms	CC BD	7	5	Ex.	
		Outdoor games with shooting elements / Exploitation of small arms and ammunition	CC PD	8	4	Ex.	
M.16	Medical knowledge	Therapeutic and preventive measures in military units / Fundamentals of medical knowledge	CC BD	7	5	Ex.	10
		Military medical training / Healing Fitness	CC PD	7	5	Ex.	
M.17	Final certification	Final Attestation	ADD	8	8	FSC	8