

Alikhan Bokeikhan University

Faculty of Information and Technology and Economics

Department of Applied Biology

**6B01403 "INITIAL MILITARY TRAINING"
THE CATALOGUE OF ELECTIVE DISCIPLINES**

Year of entrance - 2023
(full-time department-4 years)

Semey, 2023 y.

Reviewed and approved by the Educational and Methodological Council of the Faculty of Information Technology and Economics
Protocol No. 5 of 15.05.2023

Reviewed and approved at the meeting of the Educational and Methodological Council of the University
Protocol No. 5 of 25.05.2023

№	Name of discipline or module	Number of credits	Pre requisites	Post requisites	A brief description indicating the brief content and expected results of the study (knowledge, skills, skills, competencies)
Basic disciplines					
Elective courses (EC)-					
1	Anatomy the basics of sports morphology and biomechanics	6	School biology course	Human physiology	<p>Content. Musculoskeletal system. The human skeleton and its features. The muscles of the human body. Splanchnology. Angiology. Neurology and analyzers. Endocrinology. Dynamic and athletic morphology. Biomechanics of various movements and posture of the human body. Structure and functions of biomechanical systems of the motor apparatus.</p> <p>Expected results. 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.</p>
1	Human anatomy	6	School biology course	Human development	<p>Content. Anatomy as a science, research methods in anatomy; anatomical structure of the skeleton; syndesmology; myology; anatomical structure of the digestive, respiratory, genitourinary system; morpho-functional characteristics of the cardiovascular system; nervous system; sensory system, analyzers; endocrine system; skin and its derivatives.</p> <p>Expected results. 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.</p>
2	Fundamentals of basic military training	6	School course of initial military and technologica	Methods of conducting field studies/ Methods of	<p>Content. Fundamentals of legislation in the field of defense and national security. Fundamentals of military service and military duties. Fundamentals of military drill. Fundamentals of tactical and fire</p>

			1 training	teaching drill classes	<p>training. Fundamentals of military topography. Fundamentals of primary pre-medical care in emergency situations of a peaceful and military nature. Fundamentals of civil defense.</p> <p>Expected results.</p> <p>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.</p> <p>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.</p> <p>Skills: master the conceptual apparatus in the field of initial military training.</p>
2	Office work and secret documents in the Armed Forces of the Republic of Kazakhstan	6	School course of initial military and technological training	Final state certification	<p>Content. Office work in the Armed Forces of the Republic of Kazakhstan. Unification and standardization of documents. The system of organizational, legal and administrative documentation. The system of reference and information and reference and analytical documentation. Personnel documentation system. Organization of document flow. Official correspondence. The procedure for classifying information as a state secret is their classification and declassification. The procedure for obtaining access to state secrets and the procedure for accessing classified information.</p> <p>Expected results.</p> <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>
3	Fire training	5	General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	Elements of shooting	<p>Content. Hit and hitability of the target. Accuracy and validity of fire. Combat characteristics and device of small arms. Purpose, general devices and combat characteristics of small arms and sports weapons, the concept and basic provisions for maintaining small arms, armament complexes of combat vehicles, grenade launchers, hand fragmentation and anti-tank grenades in constant combat readiness.</p> <p>Expected results.</p> <p>To know: the purpose, general devices and combat characteristics of small arms and sports weapons,</p>

					<p>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>
3	Modern firearms	5	General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	Basics of shooting from small arms	<p>Content. Classification, purpose, combat properties, technical characteristics of modern weapons from various countries of the world. Types and systems of modern small arms. Samples in service in the armed forces of various countries of the world. Sports small arms. Domestic samples of modern small arms. Samples of weapons in service in the Army of the Republic of Kazakhstan. Ammunition.</p> <p>Expected results.</p> <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>
4	Tactical training	5	General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	<ol style="list-style-type: none"> 1. Military technical and engineering training, 2. Military-reconnaissance and search work on the ground 	<p>Content. Fundamentals of modern combined arms combat. Managing units of a soldier's actions in battle. The squad is on the offensive. The squad is on the defensive. The department is on the march, in the marching and sentry guard, the department is in intelligence. The platoon is on the offensive. The platoon is on the defensive. The platoon is on the march, in marching guard, in reconnaissance. The platoon is located on the spot and in the guard guard.</p> <p>Expected results.</p> <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>
4	Military topography	5	General military statutes of the Armed Forces of the Republic of Kazakhstan and drill	Military technical and engineering training	<p>Content. Orientation on the terrain without a map. Reading topographic maps. Compilation of official graphic documents. General information about topographic maps. Measurement of distances, areas, angles on the map. Orientation on the terrain. Study, assessment of the terrain on the map in the interests of performing operational-combat, service tasks. Determining the coordinates of terrain points (objects) and targeting on the map. Measuring distances on the ground.</p>

					<p>Expected results.</p> <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 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>
5	Human physiology	5	Anatomy the basics of sports morphology and biomechanics	Physiology of sports	<p>Content. Physiological characteristics of the functional state of the body systems, including sports activities. The work of all organs of the systems during physical exertion in various activities. Functions and processes of vital activity of the whole organism, its individual systems, organs, tissues, cells, mechanisms of their regulation in changing environmental conditions.</p> <p>Expected results.</p> <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>
5	Human development	5	Human anatomy	Physiological foundations of physical education	<p>Content. General periodization and characterization of the main stages of postnatal ontogenesis. Social adaptation of a person. Puberty and its specificity in humans. The main factors affecting human growth and development are genetic, hormonal, environmental, and sociological. Anomalies of growth and development. General characteristics of the aging period. Longevity as a model of natural physiological aging. Aging and life expectancy.</p> <p>Expected results.</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>
6	Fundamentals of physical education of military personnel	5	Physical culture	<ol style="list-style-type: none"> 1. Military - sports games; 2. Types of wrestling and hand-to-hand combat; 	<p>Content. Applied physical training of military personnel. Sports and wellness training. Special physical training. The influence of physical training on the increase of military-special preparedness of military personnel. Means, methods and forms of physical training Physical features. training of female military personnel. Features of physical</p>

				3. Athletics	<p>training in a military educational institution.</p> <p>Expected results.</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>
6	The basics of military morality	5	Basics of military patriotic education	<p>Educational and ideological work in the Armed Forces of the Republic of Kazakhstan</p> <p>Content. Theoretical foundations of military moral education. The main directions and value bases of moral development and education of students. Moral education in the learning process. Moral education in extracurricular activities. Military honor; performance of military duty; respect for the dignity of others, protection of one's dignity. The influence of traditions on the moral character of a serviceman. The role and significance of the moral element in military affairs.</p> <p>Expected results.</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 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.</p>	
7	Civil Defense and Emergencies	6	School course of initial military and technological training	<p>Extremism and terrorism as a threat to national security</p> <p>Content. Civil defense system in the Republic of Kazakhstan Regulatory and legal support of civil defense. Organization of emergency rescue and other urgent work in the affected areas. Modern means of destruction and their damaging factors. Means of individual and collective protection. Protective structures of civil defense. Organization of emergency response. Organization of events in the field of civil defense in educational</p>	

					<p>organizations.</p> <p>Expected results.</p> <p>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.</p> <p>Be able to: apply means of individual and collective protection; organize events in the field of civil defense in an educational institution.</p> <p>Skills: ensuring safety in specific dangerous situations of various kinds; applying the acquired knowledge and skills in professional activities.</p>
7	Fundamentals of anti-terrorist training of the population	6	School course of initial military and technological training	Terrorism and security	<p>Content. Terrorism is a threat to national security. Types of terrorist acts, their goals, motives and methods of implementation. Legislative and regulatory framework for the organization of the fight against terrorism. Planning and implementation of measures to ensure anti-terrorist protection. Teaching the population the basics of terrorism prevention. Recommendations to the population on behavior in case of terrorist acts. Personal security measures in the face of terrorist threats.</p> <p>Expected results.</p> <p>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.</p> <p>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.</p> <p>Skills: to know the ways of rational choice of methods of protecting the population from terrorist activities.</p>
8	Physiology of sports	6	Human physiology	1.Military medical training; 2.Therapeutic and preventive measures in military units	<p>Content. Physiological bases of sports. Classification of postures and types of muscular activity. Static load and exercises. Physiological characteristics of the body's conditions during sports activity and the development of fitness. Physiological characteristics of physical exercises with a cyclic structure of movements. Physiological characteristics of sports with a stereotypical non-cyclical structure of movements. Physiological characteristics of non-standard physical exercises.</p> <p>Expected results.</p> <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 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</p>

					<p>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>
8	Physiological foundations of physical education	6	Human development	<p>1. Healing Fitness;</p> <p>2. Fundamentals of medical knowledge</p>	<p>Content. Physiological bases of classification of physical exercises and their characteristics. Physiological characteristics of the functional states of the body during muscle activity. Physiological characteristics of the lesson. Physiological characteristics of the main types of physical exercises that form the basis of the school curriculum for physical culture.</p> <p>Expected results.</p> <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>
9	Military - sports games	6	Fundamentals of physical education of military personnel	<p>Outdoor games with shooting elements</p>	<p>Content. General characteristics of military sports. Rules of competitions in military sports. Military sports games. Fundamentals of the methodology for conducting military sports games with children, adolescents, young men, adult athletes. Methods of teaching motor actions in military sports games. General basics of teaching military sports techniques.</p> <p>Expected results.</p> <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</p>

					different age groups;. the ability to compile methodological documentation./
9	Types of military equipment and their use	6	Military technical and engineering training	Weapons and equipment of the ground forces	<p>Content. Military equipment, which is in service with the Armed Forces of the Republic of Kazakhstan. The Ground Forces are the troops of the four Regional Commands. Airmobile troops. Rocket troops and artillery. The Air Defense forces of the Armed Forces of the Republic of Kazakhstan include: the air force (frontline and army aviation); air defense forces (anti-aircraft missile troops, radio engineering troops). Naval Forces of the Armed Forces of the Republic of Kazakhstan. Armament of radio engineering troops.</p> <p>Expected results.</p> <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> <p>Skills: possess information about various types of military equipment and present information using visual material.</p>
10	History of military art and armed forces of the Republic of Kazakhstan	5	Basics of military patriotic education	Final state certification	<p>Content. The experience of past wars, the process of development of military art and the laws of this process. The most important stages of military history; the development of means of armed struggle; tactics of units of land forces; traditions of the Armed Forces of the Republic. The use of knowledge in the course of conducting classes on IMT.</p> <p>Expected results.</p> <p>To know: the experience of past wars, the process of development of military art and the laws of this process, the most important stages of military history; the development of means of armed struggle; traditions of the Armed Forces of the Republic.</p> <p>Be able to: analyze historical events, creatively comprehend the experience accumulated by the Armed Forces in the process of performing the functions of the state to ensure external and internal security, public order.</p> <p>Skills: the use of knowledge about the history of military art and the Armed forces of the Republic of Kazakhstan in the course of conducting classes on IMT</p>
10	Educational and ideological work in the Armed Forces of the Republic of Kazakhstan	5	The basics of military morality	Basics of general and special training of military personnel	<p>Content. The purpose of educational and ideological work of the Armed Forces of the Republic of Kazakhstan. Principles of educational and ideological work in the Armed Forces of the Republic of Kazakhstan. The theoretical basis of ideological work in the Armed Forces of the Republic of Kazakhstan: State, universal, military-professional values and the values of a serviceman as a citizen of Kazakhstan. Priorities of ideological work in the Armed Forces of the Republic of Kazakhstan. Means and forms of ideological work</p>

					<p>in the Armed Forces of the Republic of Kazakhstan.</p> <p>Expected results.</p> <p>To know: principles, means and forms of educational and ideological work in the Armed Forces of the Republic of Kazakhstan; theoretical foundations of ideological work in the Armed Forces of the Republic of Kazakhstan: State, universal, military-professional values and values of a serviceman as a citizen of Kazakhstan.</p> <p>Be able to: be able to carry out educational and ideological work.</p> <p>Skills: possess the skills of educational and ideological work in the Armed Forces of the Republic of Kazakhstan and use them in their professional activities.</p>
11	Elements of shooting	5	Fire training	Outdoor games with shooting elements	<p>Content. Theoretical foundations and rules of shooting. The main elements of the technique of executing a shot (making, aiming, pulling the trigger, breathing, weapon grip). Basics of shooting from small arms. The trajectory and its elements. Accuracy and accuracy of shooting, ways to improve them. Patterns of bullet flight in the air.</p> <p>Expected results.</p> <p>To know: the theoretical foundations and rules of shooting; the basic elements of the technique of executing a shot (making, aiming, pulling the trigger, breathing, grip of a weapon); the basics of shooting from small arms, the trajectory and its elements; the concepts of accuracy and accuracy of shooting and ways to improve them; the laws of the flight of bullets in the air.</p> <p>Be able to: apply theoretical knowledge in the field of shooting and its elements; be able to calculate the trajectory of a bullet, using the laws of the flight of bullets in the air; be able to use the technique of performing a shot from small arms.</p> <p>Skills: master the conceptual and terminological apparatus in the field of shooting</p>
11	Basics of shooting from small arms	5	Modern firearms	Exploitation of small arms and ammunition	<p>Content. Basics of shooting small arms Determining the distance to the target. Loading and firing (setting the sight, determining the aiming point, pulling the trigger, holding the weapon when firing, stopping firing). The procedure for discharging and inspecting weapons after firing. The order of inspection of targets. Grenade throwing techniques. Teaching methods of organizing and conducting classes, trainings and shooting competitions.</p> <p>Expected results.</p> <p>To know: the basics of shooting from small arms; determining the distance to the target; loading and firing, the procedure for discharging and inspecting weapons after firing, the procedure for inspecting targets, grenade throwing techniques; teaching methods for organizing and conducting classes, training and shooting competitions.</p> <p>Be able to: be able to conduct training, training and shooting competitions; be able to handle small arms.</p> <p>Skills: able to organize and teach students the basics and rules of shooting small arms and safe</p>

					handling.
12	Fundamentals of military pedagogical culture	5	Methods of teaching basic military training	Final state certification	<p>Content. General issues of military pedagogy. Methods and forms of training and education of warriors. Pedagogical culture of a teacher and an officer. Pedagogical orientation. Psychological and pedagogical erudition. Political maturity. Moral integrity. High pedagogical skills. Self-education and self-education of a teacher and an officer. The directions of the work of the teacher –organizer of the IMT on the management of self-education and self-education of students.</p> <p>Expected results.</p> <p>To know: general issues of military pedagogy; methods and forms of training and education of soldiers and features of pedagogical culture, moral integrity, 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>
12	Scientific - pedagogical research	5	Methods of teaching basic military training	Final state certification	<p>Content. Science as a result of human cognitive activity. The essence of the methodology of scientific and pedagogical research. Methods of pedagogical research. Features of the research activity of a teacher-researcher. Analysis of the state of the issue under study. Observation as a method of pedagogical research. Pedagogical experience, methods of its study and generalization. The methodology of the experiment. Modeling in a pedagogical experiment. Methods of working with literature. Presentation of research work and research data.</p> <p>Expected results.</p> <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>
13	Athletics	5	Fundamentals of physical education of military	Final state certification	<p>Content. General and special physical training in athletics. Technical and tactical training in athletics. Methods of training in athletics. Fundamentals of professional training of a coach in athletics. Classification and characteristics of athletics</p>

			personnel		<p>exercises. History of the development of athletics. Fundamentals of the technique of athletics. Organization and holding of athletics competitions.</p> <p>Expected results.</p> <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>
13	Basics of general and special training of military personnel	5	Educational and ideological work in the Armed Forces of the Republic of Kazakhstan	Final state certification	<p>Content. Fundamentals of ensuring the security of military service. Public-state training. Military engineering training. Tactical training. Military medical training. Radiation, chemical and biological protection. Physical training. Applied physical training of military personnel: running exercises. Drill training.</p> <p>Expected results.</p> <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>
14	Therapeutic and preventive measures in military units	5	Physiology of sports	Final state certification	<p>Content. Preservation and strengthening of the health of military personnel. Medical examination. Therapeutic and preventive nutrition. Therapeutic and preventive measures. The main therapeutic and preventive means: medical examination, outpatient inpatient and sanatorium treatment of military personnel. Organization of medical examination of military personnel. Organization of daily medical supervision and examinations of the health of military personnel. Features of in-depth medical examination of young recruits.</p> <p>Expected results.</p> <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 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>

					Skills: using the studied information to improve their professional expertise.
14	Fundamentals of medical knowledge	5	Physiological foundations of physical education	Final state certification	<p>Content. Health and the factors that determine it. The concept of urgent conditions, causes and factors causing them. Diagnostics and first aid techniques for emergency conditions. Cardiopulmonary resuscitation complex. Patient care. The use of medicines. First aid for injuries and infectious diseases with the basics of microbiology.</p> <p>Expected results.</p> <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 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>
MAIN DISCIPLINES					
Elective courses (EC)					
1	Methods of conducting field studies	3	Fundamentals of basic military training	Methods of teaching basic military training	<p>Content. Regulatory and legal framework for the organization and conduct of field training camps. Instructing students taking part in military field training camps. Methods of conducting field training camps. Setting goals and objectives for the personnel of the training camps. The plan of sports and mass activities during the training and field training camps. Conducting military-patriotic education events at field training camps. Documentation for conducting field training camps.</p> <p>Expected results.</p> <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</p>

					documentation at the stage of planning and conducting training and field meetings.
1	Methods of teaching drill classes	3	Fundamentals of basic military training	Methods of teaching basic military training	<p>Content. Fundamentals of drill training. Pedagogical skills of the commander. Methods of drill training. Planning, preparation, organization of drill classes. Briefings. The order of the lesson in the company. Single drill. Drill techniques and movement without weapons and with weapons. Movement on the battlefield. Combat coordination of units on foot and by car. Drill reviews. Competitions.</p> <p>Expected results. 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. 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. 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>
2	Extremism and terrorism as a threat to national security	5	Civil Defense and Emergencies	Final state certification	<p>Content. Theoretical foundations of terrorism and extremism. Extremism and terrorism in the modern world. Countering extremism and terrorism. Legal basis of the fight against terrorism. Legislative and regulatory support for the fight against extremism. International experience in countering terrorism. National Security of the Republic of Kazakhstan Fundamentals of anti-terrorist policy of Kazakhstan.</p> <p>Expected results. 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. 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. 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>
2	Terrorism and security	5	Fundamentals of anti-	Final state certification	<p>Content. Fundamentals of the security of the individual, society and the state. National security</p>

			terrorist training of the population		<p>in the modern world. Organization of the fight against terrorism in the Republic of Kazakhstan. Legislative and regulatory framework for the organization of the fight against terrorism. Terrorism is a threat to the individual, society, and the state. 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.</p> <p>Expected results.</p> <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>
3	Military-reconnaissance and search work on the ground	5	Tactical training	Final state certification	<p>Content. The main ways of performing intelligence tasks by an intelligence group. The implementation of the search on the ground. Methods of conducting search operations. Tactical intelligence. Engineering intelligence. Working with a metal detector. Various types of devices. Organization and conduct of search expeditions, hikes for the purpose of surveying settlements.</p> <p>Methods of organizing and conducting search and rescue operations of search and rescue activities in the field of tourism. Documentation in the search party.</p> <p>Expected results.</p> <p>To know: the main ways of performing tasks by the reconnaissance group; the 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>
3	Information technology in school	5	Methods of teaching basic military training	Final state certification	<p>Content. Information processes, informatization of society and education. Technical and technological aspects of implementing information processes in education. Information and educational environment. Electronic educational resources. Multimedia technologies in education. Use of communication technologies and their services in education. Use of</p>

				<p>databases and information systems in education. Legal aspects of the use of information technologies, security and information protection issues.</p> <p>Expected results.</p> <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 electronic educational resources in education in the educational process; about the use of databases and information systems in education; legal aspects of the use of information technologies, 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 in the process of educational activities.</p> <p>Skills: to master the methodology of using information technologies in the subject area; skills of working with software tools of general and professional purpose.</p>
4	Types of wrestling and hand-to-hand combat	5	Fundamentals of physical education of military personnel	<p>Final state certification</p> <p>Content. Types of wrestling and hand-to-hand combat. Methods of teaching the basics of techniques of types of wrestling and hand-to-hand combat with students of secondary schools. The main technical actions of martial arts. Knowledge of martial arts tactics. Mastering theoretical, methodological, professional and pedagogical knowledge necessary for independent pedagogical skills.</p> <p>Expected results.</p> <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>
4	Weapons and equipment of the ground forces	5	Types of military equipment and their use	<p>Final state certification</p> <p>Content. Military equipment (introduction). The history of the development of military equipment. Classification and purpose of military equipment. Land military equipment. The history of the development of automotive and armored vehicles. Classification and purpose of armored vehicles.</p>

					<p>Types of engines of land vehicles. Layout of a land vehicle. Cars, armored personnel carriers, infantry fighting vehicles (paratroopers), tanks: device, purpose.</p> <p>Expected results.</p> <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 acquired skills in practice.</p>
5	Military medical training	5	Physiology of sports	Final state certification	<p>Content. The procedure for carrying out medical and preventive measures in peacetime. Organization of medical activities of the Armed Forces of the Republic of Kazakhstan, tasks. Personal and public hygiene of military personnel. Prevention of infectious diseases. Means of personal medical support for military personnel.</p> <p>Expected results.</p> <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>
5	Healing Fitness	5	Physiological foundations of physical education	Final state certification	<p>Content. Introduction to therapeutic physical culture. Rehabilitation. The basics of physical therapy. Therapeutic physical culture in diseases of various systems of the human body. Physical therapy for injuries of the musculoskeletal system. Features of rehabilitation of athletes after injuries and diseases of the musculoskeletal system. Exercise therapy for posture disorders, scoliosis and flat feet. Physical therapy in pediatrics. Therapeutic massage. Sports massage. Self-massage. General massage technique.</p> <p>Expected results.</p> <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</p>

					<p>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>
6	Basics of military robotics and information technology (IT)	3	Military technical and engineering training	Final state certification	<p>Content. Fundamentals of robotics. The main types of connection parts. Fundamentals of mechanics, dynamics, kinematics, electrical engineering, pneumatics. Designing complex devices. Development of innovative technologies, computerization of production. Combat (military) robots and their varieties. Unmanned, remote-controlled, reconnaissance aircraft (helicopters), underwater vehicles and surface ships, mining robots, sappers, patrol, scouts, infantrymen, robots for carrying military ammunition. Artificial intelligence.</p> <p>Expected results.</p> <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>
6	Mechatronics and Robotics	3	Military technical and engineering training	Final state certification	<p>Content. Basic concepts of mechatronics and robotics. The concept of mechatronics as a new field of science and technology. Automatic control 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 a robot and a manipulator. Types of robot control systems.</p> <p>Expected results.</p> <p>To know: the basic concepts of mechatronics and robotics; the concept of mechatronics as a new field of science and technology;. Automatic regulation</p>

					<p>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.</p> <p>Be able to: select the necessary types of robotic and mechatronic systems; determine the methods and control systems for them;</p> <p>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.</p>
7	Outdoor games with shooting elements	4	<p>1. Elements of shooting;</p> <p>2. Military - sports games</p>	Final state certification	<p>Content. Pedagogical significance of outdoor games and their characteristics. 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.</p> <p>Expected results.</p> <p>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.</p> <p>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.</p> <p>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.</p>
7	Exploitation of small arms and ammunition	4	Basics of shooting from small arms	Final state certification	<p>Content. Classification of weapons. Rules for the safe handling of weapons, ammunition and imitation equipment in the classroom and during shooting. Operation of weapons. Inspection, preparation of weapons for firing. Disassembly and assembly of weapons. Explosives. The device of ammunition for the types of weapons in question. Weapon defects. Cleaning weapons. Checking the combat of small arms and bringing it to normal combat.</p> <p>Expected results.</p> <p>Know the rules for the safe handling of weapons, ammunition and imitation equipment in the classroom and during shooting, the operation of weapons.</p> <p>Be able to: comply with safety regulations when handling weapons and ammunition, observe; the order of maintenance of weapons.</p> <p>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.</p>

SCROLL
component of choice for Training program
6B01403 "INITIAL MILITARY TRAINING "
Duration of studies: 4 years Form of study: full - time

Year of admission: 2023

№	The name of discipline	Discipline code	Number of the Credits	Semester
2. Basic disciplines				
Component of choice 1				
1	Anatomy the basics of sports morphology and biomechanics	ABSMB 2212	6	3
	Human anatomy	HA 2212		
Component of choice 2				
2	Fundamentals of basic military training	FBMT2213	6	3
	Office work and secret documents in the Armed Forces of the Republic of Kazakhstan	OWSDAFRK2213		
Component of choice 3				
3	Fire training	FT2214	5	4
	Modern firearms	MF2214		
Component of choice 4				
4	Tactical training	TT2215	5	4
	Military topography	MT2215		
Component of choice 5				
5	Human physiology	HP2216	5	4
	Human development	HD 2216		
Component of choice 6				
6	Fundamentals of physical education of military personnel	FPEMP 3217	5	5
	The basics of military morality	BMM 3217		
Component of choice 7				
7	Civil Defense and Emergencies	CDE3218	6	5
	Fundamentals of anti-terrorist training of the population	FATTP3218		
Component of choice 8				
8	Physiology of sports	PS 3219	6	6
	Physiological foundations of physical education	PFPE 3219		
Component of choice 9				
9	Military - sports games	MSG 3220	6	6
	Types of military equipment and their use	TMETU 3220		
Component of choice 10				
10	History of military art and armed forces of the Republic of Kazakhstan	HMAAFRK3221	5	6
	Educational and ideological work in the Armed Forces of the Republic of Kazakhstan	EIWAFRK3221		
Component of choice 11				
11	Elements of shooting	ES4222	5	7
	Basics of shooting from small arms	BSFSA 4222		

12	Component of choice 12			5	7
	Fundamentals of military pedagogical culture	FMPC 4223			
	Scientific - pedagogical research	SPR4223			
13	Component of choice 13			5	7
	Athletics	Atl 4224			
	Basics of general and special training of military personnel	BGSTMP4224			
14	Component of choice 14			5	7
	Therapeutic and preventive measures in military units	TPMMU4225			
	Fundamentals of medical knowledge	FMK4225			
3. Profiling discipline					
	Component of choice				
1	Component of choice 1			3	4
	Methods of conducting field studies	MCFS 2306			
	Methods of teaching drill classes	MTDC2306			
2	Component of choice 2			5	6
	Extremism and terrorism as a threat to national security	ETATNS 3307			
	Terrorism and security	TS 3307			
3	Component of choice 3			5	6
	Military-reconnaissance and search work on the ground	MRSWG 3308			
	Information technology in school	ITS 3308			
4	Component of choice 4			5	7
	Types of wrestling and hand-to-hand combat	TWHHC 4309			
	Weapons and equipment of the ground forces	WEGF4309			
5	Component of choice 5			5	7
	Military medical training	MMT 4310			
	Healing Fitness	HF 4310			
6	Component of choice 6			3	8
	Basics of military robotics and information technology (IT)	BMRIT 4311			
	Mechatronics and Robotics	MR 4311			
7	Component of choice 7			4	8
	Outdoor games with shooting elements	OGWSE 4312			
	Exploitation of small arms and ammunition	ESAA 4312			