

MINISTRY OF DEFENCE OF UKRAINE

MILITARY ACADEMY (ODESA)

**EDUCATIONAL PROGRAMME
OF THE COURSE PROFESSIONAL MILITARY EDUCATION**

***BASIC TACTICAL COURSE L-1A AND
TACTICAL LEVEL PROFESSIONAL COURSE
MARINES, L-1B (M)***

**Military Accounting
Specialty**

021400 *“Combat use of formations, military units
and subdivisions of the Marines”*

APPROVED

by the Academic Council of the Military Academy
(Odesa) (protocol dated “___” ___ 20_ No. _)

Head of the Academic Council

Military Academy (Odesa)

Major General

Andrii KOVALCHUK

Put into effect by Order of the Commandant of the
Military Academy (Odesa) dated "___" ___ 20_ No. _

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LETTER OF AGREEMENT
OF THE COURSE CURRICULUM
PROFESSIONAL MILITARY EDUCATION

BASIC TACTICAL COURSE L-1A AND
TACTICAL LEVEL PROFESSIONAL COURSE
MARINES, L-1B (M)

**Military Accounting
Specialty**

021400 Combat use of formations, military units
and subdivisions of the Marines"

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Director of the Department of Military
Education and Science of the Ministry
of Defence of Ukraine
Doctor of Technical Sciences,

Head of the Central Directorate of Military
Education and Science of the General Staff
of the Armed Forces of Ukraine
Colonel

Vladimir MIRNENKO

Oleg PAVLOVSKY

" _____ " _____ 20 ____ p.

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APPROVED

Commander of the Naval Forces of the
Armed Forces of Ukraine
Vice-admiral

Alexey NEYZHPAPA

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Developed and introduced

Chairman of the working group

Head of the Doctrine and Training
Department of the Naval Training
Command, military unit A0456
Colonel

Alexander OREKHOV

" _____ " _____ 20 ____ p.

FOREWORD

Developed by the working group: Command of the Ukrainian Navy and the Military Academy (Odesa).

Order of the commander of military unit A0456 of " ___ " _____ 2024 no. _____.

Chairman of the working group:

Oleksandr OREKHOV - Colonel, Head of the Department of Doctrine and Training of the Navy, Training Command of Military Unit A0456.

Members of the working group:

Volodymyr MAZUR - Colonel, Head of the Individual Training Department of military unit A2022;

Serhii ROSENFELD - Colonel, Deputy Head of the Centre for Advanced Training in Educational Work - Head of the Educational Unit of the Military Academy (Odesa);

Vadym KLYMENKO – Doctor of Philosophy, Associate Professor, Colonel, Head of the Department of Command and Control of Airborne Assault Forces and Marines, Faculty of Training of Specialists of Airborne Assault Forces and Marines, Military Academy (Odesa);

Yurii MARAR - Captain 1st rank, Head of the Department of Doctrine and Training of Military Units of the Marine Corps and the BRAV Department of Doctrine and Training of the Navy, Training Command of Military Unit A0456;

Serhii KUZ - Colonel, Head of the Faculty of Training of Specialists of the Airborne Assault Forces and Marines of the Military Academy (Odesa);

Vasyl BABAK - Doctor of Philosophy, Colonel, Head of the Department of Airborne Training, Faculty of Specialist Training of Airborne Assault Forces and Marines, Military Academy (Odesa);

Vadym YARMOLIUK - Doctor of Philosophy, Senior Researcher, Colonel, Head of the Department of Armoured Vehicles, Faculty of Training of Specialists of the Airborne Assault Forces and Marines, Military Academy (Odesa).

ACCOUNTED FOR:

1. Professional standard of a tactical officer of the Armed Forces of Ukraine (marines).

2. Educational programme of the professional military education course "Basic course of tactical level L-1A", OP 7-00(341)345.61.

3. Comments and suggestions from the stakeholders - the Marines Command of the Ukrainian Navy.

4. Proposals from students and academic staff of the Military Academy (Odesa).

**I. PROFILE OF THE EDUCATIONAL PROGRAMME
PROFESSIONAL MILITARY EDUCATION COURSE
"BASIC TACTICAL COURSE L-1A AND
TACTICAL LEVEL PROFESSIONAL COURSE
MARINES, L-1B (MP)"**

1 - General information	
Full Name of the Military Higher Education Institution (HMEI, MTU HEI)	Military Academy (Odesa)
Name of the document on completion and scope of the educational programme of the professional military education course	Certificate of completion of the professional military education course "Basic course of tactical level L-1A and professional course of tactical level of the Marine Corps L-1B(MP), MAS 021400". Scope of the study programme: 40 ECTS credits
Prerequisites	Possession of a higher education degree not lower than a bachelor's degree, fitness for military service in the officer's position
Language(s) of instruction	Ukrainian
Duration of the educational programme for the professional education course	For the period of martial law
2 - The aim of the educational programme of the professional military education course	
Acquisition of military professional and military specialised competences for service as tactical level officers in the Marine Corps units of the Navy	
3 - The characteristics of the educational programme of the professional military education course	
Subject area	Field of knowledge: "25 Military sciences, national security, state border security". Speciality: "253 Military management (by type of armed forces)". Specialisation: "Command and control of marine units".
The main focus of the educational programme of the professional military education course	Training at the tactical level of qualified officers who are competent in the organisation and management of a unit at the level of a platoon commander of the Marines of the Navy with the rank of senior lieutenant.
Features of the programme	Module 1: Basic Tactical Level Course, L-1A is mandatory for the following category of persons involved in the course: servicemen and women called up for military service during mobilisation who are currently undergoing or have already completed the PVE, servicemen and women who are performing military service under a contract in military units but do not have combat experience; civilian citizens of Ukraine who have not previously performed military service and have no combat experience. Module 2. The Marine Corps Tactical Level Course, L-1B (MP) is applicable to all categories of individuals who have completed the Basic Tactical Level Course, L-1A. This educational programme has a reduced scope in accordance with the requirements of the Catalogue of Professional Military Education Courses approved by the First

	Deputy Minister of Defence of Ukraine under No. 3409/ud of 06.06.2024, and decisions of the Chief of the General Staff of the Armed Forces of Ukraine 11.08.2024 No. 7257/C/дск, 18.08.2024 No. 111812/C/1 and 27.08.2024 No. 119594/C, and also takes into account the educational programme of the professional military education course "Basic Course of Tactical Level L-1A" MP 7-00(341)345.61, approved by the Chief of the General Staff of the Armed Forces of Ukraine on 29.06.2024 № 97672/C.
4 - The employability and further education prospects of graduates	
Employability	Primary positions of junior officers as defined in the professional standard for tactical level officers.
Further education	Training under the educational programme of the professional military education course "Command Course of the Tactical Level of the Marine Corps L-1C (MC)".
5 - Instruction and assessment	
Teaching and learning	The main types of classes used to teach the components of the educational programme are: lectures; seminars, group, practical classes, group exercises; tactical (tactical and formation, tactical and special) independent classes, including at the field training base.
Evaluation	<p>Ongoing supervision during classes, working on practical tasks and standards.</p> <p>Intermediate control of the result of mastering the disciplines of the basic course of the tactical level L-1A.</p> <p>Final control in the form of an exam or test in each discipline.</p> <p>Assessment of the learning outcomes of course participants includes the full range of control measures provided by the programmes of academic disciplines and is carried out on a 100-point scale, ECTS scale and national scale.</p> <p>The result of the test on the training material can be assessed on a two-tier scale: "passed" or "failed".</p>
6 - Programme competences	
Military and professional competences (MPC)	<p>MPC 1. The ability to perform official duties in good faith and honesty in accordance with the requirements of the Statutes of the Armed Forces of Ukraine and other regulatory legal acts governing official activities, and to demand that subordinates comply with and fulfil them.</p> <p>MPC 2. The ability to plan, organise combat and manage a unit in the main types of combat (tactical actions).</p> <p>MPC 3. Ability to apply in practice the basic provisions of the theory of management and decision-making, algorithms for making managerial decisions, principles and procedures for effective management of the unit (including NATO standards); conduct historical and retrospective analysis.</p> <p>MPC 4. The ability to analyse and understand the mission; lead personnel to achieve it, demonstrating values, character traits and thinking based on examples of the Warrior ethos and outstanding military leadership.</p> <p>MPC 5. The ability to improve professional, methodological</p>

	<p>and physical skills; to personally conduct combat training classes with personnel (unit); to work with secret documents, store weapons and ammunition, ensure compliance with security measures during classes; to maintain the unit's constant readiness to perform assigned tasks in peacetime and wartime.</p> <p>MPC 6. Ability to organise CBRN protection in the unit; use personal protective equipment and overcome contaminated areas in various conditions of the situation in the course of performing assigned tasks.</p> <p>MPC 7. Ability to determine the tactical properties of the terrain when conducting combat operations in various conditions; work with topographic maps and photographic documents; navigate the terrain with a map, without a map and with the help of navigation devices.</p> <p>MPC 8. Ability to perform engineering support tasks in various types of combat.</p> <p>MPC 9. Ability to organise and maintain communication in the unit using standard means of communication.</p> <p>MPC 10. The ability to perform professional activities in conditions of prolonged, diverse physical exertion and mental stress; to organise the training of servicemen to ensure their physical readiness to perform assigned tasks; to organise the performance of tactical medicine tasks.</p> <p>MPC 11. The ability to prepare the unit's standard weapons for combat use; effectively use the combat and technical capabilities of weapons (weapons) during combat (combat operations), conducting all types of training with subordinate personnel; the ability to personally master the techniques and methods of accurate fire from standard weapons (weapons) at targets that appear and move, day and night; the ability to control the fire of subordinate units (firearms) during combat missions.</p> <p>MPC 12. Ability to apply disciplinary practice in relation to subordinate personnel; manage a unit in compliance with international humanitarian law.</p>
<p>Military Special Competencies (MSC)</p>	<p>MSC 1. The ability to apply knowledge, skills and practical skills in managing the actions and tactics of units (up to and including a company) of the Marines of the Navy of the Armed Forces of Ukraine in normal (emergency), emergency and new situations in peacetime and wartime (special period) using NATO procedures.</p> <p>MSC 2. The ability to use all firearms in service with the marine units of the Navy of the Armed Forces of Ukraine, both small arms and armament of combat vehicles (including foreign models).</p> <p>MSC 3. Ability to organise and conduct training of personnel and cargo for parachute landing.</p> <p>MSC 4. The ability to use knowledge of the technical characteristics and structure of armoured vehicles of the Ukrainian Navy and foreign models to ensure their proper operation.</p>

	<p>MSC 5. The ability to drive various types of combat vehicles (including foreign models), check the condition of vehicles, conduct rapid diagnostics of equipment and weapons of the unit and make decisions on their further operation.</p>
<p>7 - Programme learning outcomes</p>	
<p>Professional training</p>	<p>LOmpt 1. Apply the requirements of the Statutes of the Armed Forces of Ukraine in the organisation of service activities in the unit, internal and guard service, maintaining military discipline and ensuring the unit's coherence.</p> <p>LOmpt 2. To prepare the unit for combat (tactical actions), to manage the actions of the unit during combat (tactical actions).</p> <p>LOmpt 3. To know and understand the principles and procedures for managing a unit according to NATO standards and be able to use them to achieve service and combat objectives; to make informed decisions on the actions of the unit in a combat situation using the principles and procedures of NATO standards; to be able to conduct historical and retrospective analysis of actions.</p> <p>LOmpt 4. To know and understand the peculiarities of the officer's profession, the basics of military leadership, values, character traits and types of thinking of outstanding military leaders on the examples of their military professional activities and the ethos of the Warrior.</p> <p>LOmpt 5. Know the methods of improving their professional and methodological skills, personally conduct combat training classes with personnel (unit); be able to work with secret documents; securely store weapons and ammunition, unit property, manage the unit's company economy; ensure compliance with safety measures during classes, firing (flights, campaigns), exercises (training), readiness checks.</p> <p>LOmpt 6. Organise CBR protection in the unit (use personal protective equipment and overcome contaminated areas) in various conditions of the situation in the course of performing assigned tasks.</p> <p>LOmpt 7. Determine the tactical properties of the terrain when conducting combat operations in various conditions; work with topographic maps and photographic documents; navigate unfamiliar terrain using a map, without map and with the help of navigation devices, day and night, in any weather and season.</p> <p>LOmpt 8. Formulate instructions for engineering support to the platoon in various types of combat, using an understanding of basic engineering support measures; carry out practical equipment and camouflage of platoon support elements; organise measures to remove and clear single mines and minefields using standard equipment.</p> <p>LOmpt 9. To use standard communications equipment in service with the unit to organise communications; to organise measures to protect against enemy electronic warfare during preparation and conduct of combat.</p>

LOmpt 10. Apply knowledge to meet the needs of the serviceman during actions in autonomous conditions at the expense of natural resources; protection from the effects of physical and geographical conditions using natural and improvised means; be able to organise the implementation of tactical medicine tasks.

LOmpt 11. Apply knowledge of the material part of small arms, rules of fire, operation and maintenance of small arms, methods of organising and conducting classes to train unit personnel, prepare weapons for firing in marching (combat) handling and in the performance of combat missions; apply knowledge and skills in fire control of the unit in combat.

LOmpt 12. Understand the procedure for military service, bringing servicemen to criminal, administrative and material responsibility; social and legal protection of servicemen and their families; know the procedure for conducting an internal investigation in the Armed Forces of Ukraine; apply knowledge of international humanitarian law.

LOmst 1. Reproduce the tactics of the Navy marine units (combat support units) in various types of combat (taking into account the experience of combat operations), apply standard operating procedures for TLP planning used in the armies of the world's leading countries, organise the interaction of regular and attached units (up to and including a company), use the capabilities of amphibious assault vehicles, landing marine units on the shore, on the float and on berths.

LOmst 2. To apply the principles of general combat, provisions of combat manuals and guidelines, while performing combat missions, assess the situation, conduct tactical calculations, make informed decisions, conduct reconnaissance, set combat tasks for units, organise their interaction, use combat capabilities of the marine units of the Navy of the Armed Forces of Ukraine, their standard weapons and combat equipment, control fire and units in the main types of combat, adjust artillery fire, organise and carry out marching, covertly deploy units on the ground, provide security and defence in the area of concentration, use individual and collective weapons and military equipment in difficult combat conditions on various terrain in cooperation with units of other branches of the armed forces.

LOmst 3. To know the structure, tactical and technical characteristics of weapons and military equipment of naval infantry units of the Navy, rules of firing from standard weapons, requirements of the Course of small arms and armament of combat vehicles for the organisation of fire training.

LOmst 4. To organise and carry out the correct operation, maintenance, storage and preparation of small arms and armament of combat vehicles for combat use, to bring small arms and armament of combat vehicles into normal combat, to perform training firing exercises with standard weapons and

	<p>armament and to monitor compliance with safety measures during classes, firing, exercises, and to organise firearms training.</p> <p>LOmst 5. To use airborne equipment in accordance with the rules of its operation and storage in combat readiness mode, the requirements of the Airborne Service Manual and guiding documents that determine the organisation and procedure for the implementation of measures to prepare personnel and cargo for airborne operations.</p> <p>LOmst 6. To organise and methodically carry out parachute deployment and their stage-by-stage control, conduct ground training and pre-jump training, prepare personnel and cargo for airborne operations, perform the duties of a release officer, and keep records of airborne training of personnel.</p> <p>LOmst 7. Know the structure and reproduce the procedure for operating all types of combat vehicles in service with the unit (including the armies of NATO member states and the enemy), the procedure for maintenance of BTOT samples.</p> <p>LOmst 8. To know the requirements of the Combat Vehicle Driving Course; to make full use of the technical capabilities of combat vehicles, confidently drive them on various terrain, overcome various obstacles, limited and track passages and barriers, load (unload) equipment onto vehicles, self-pull out when vehicles are stuck and tow them, organise driving sessions with subordinate personnel.</p> <p>LOmst 9. Acquire sufficient skills in organising and conducting classes (training) in tactical, firearms, airborne and technical training (including the use of simulators) in the unit; develop planning and reporting documents; effectively use training facilities and objects of the training material and technical base; ensure compliance with safety measures during classes and exercises.</p>
8 - Resource Provision for Programme Implementation	
Staffing Provision	<p>Academic staff involved in the educational programme are full-time employees of the Military Academy, some of them have academic degrees and academic titles.</p> <p>The practice-oriented nature of the educational programme involves the wide participation of practitioners who are relevant to the programme, which enhances the synergy between theoretical and Practical session.</p> <p>The head and members of the working group on the development of the programme, as well as the teaching staff that ensures the implementation of the educational programme meet the requirements set by the Ministry of Defence of Ukraine.</p>
Material and Technical Support	<p>The material and technical base of the Military Academy (Odesa) and the Centre for Supporting the Educational Process of the Military Academy is used to implement the competencies and learning outcomes specified in the educational programme. The material and technical support meets the requirements for the provision of educational services and is sufficient to ensure the quality of the educational process, in particular: classrooms;</p>

	<p>computer classes (laboratories); specialised laboratories; gyms, sports grounds; library, reading room; multimedia equipment; premises for research and teaching staff; barracks premises; dining room, etc.</p>
<p>Information and Educational-Methodological Support</p>	<p>Teaching and learning materials are developed in accordance with the current regulatory and legislative documents of the Ministry of Education and Science of Ukraine and orders of the Ministry of Defence of Ukraine, and consist of the following materials:</p> <ul style="list-style-type: none"> instructional and methodological materials for practical classes; teaching materials for all types of training sessions; methodological guidelines for organising independent work; diagnostic tools. <p>The library fund is used in teaching, including teaching materials, educational and methodological developments of teaching staff.</p> <p>The programme is implemented using the virtual learning environment of the Military Academy (Odesa), author's developments, textbooks and manuals, and other teaching and learning materials.</p> <p>The official website of the Academy (http://vaodesa.mil.gov.ua/) contains information on educational, scientific and educational activities, structural units, admission rules, contacts, and users have the opportunity to use all available library resources. There is technological and logistical support for the educational process. The system of bringing combat experience gained during the Russian-Ukrainian war is organised.</p>

2. LIST OF COMPONENTS OF THE CURRICULUM OF THE PROFESSIONAL MILITARY EDUCATION COURSE AND THE CORRESPONDENCE OF PROGRAMME COMPETENCES AND LEARNING OUTCOMES TO THE COMPONENTS OF THE CURRICULUM

2.1. List of components of the EP

Code. n/a.	Components of the educational programme (academic disciplines/modules)	Number of credits	Form of final control
Module 1: Basic tactical course, L-1A			
MP 1.1	History of wars and military art	0,5	Credit
MP 1.2	Fundamentals of military leadership	1	Credit
MP 1.3	General tactics	5	Examination
MP 1.4	Fundamentals of military management (including Troop Leading Procedures)	2	Credit
MP 1.5	Management of day-to-day operations of units	1	Credit
MP 1.6	Radiation, chemical, biological protection of units (including ecology)	0,5	Credit
MP 1.7	Military topography	1	Credit
MP 1.8	Engineering training	1	Credit
MP 1.9	Organisation of military communications	0,5	Credit
MP 1.10	Combat system for warrior survival (including tactical medicine)	2	Credit
MP 1.11	Statutes of the Armed Forces of Ukraine and their practical application (including drill training)	0,5	Credit
MP 1.12	Small arms and firearms training	3	Credit
MP 1.13	Fundamentals of military law and international humanitarian law	0,5	Credit
MP 1.14	Intelligence training	0,5	Credit
MP 1.15	Fundamentals of organising and conducting warfare in the electromagnetic environment and cyberspace	0,5	Credit
MP 1.16	Basics of using tactical-grade unmanned systems	0,5	Credit
Total credits for the programme		20	
Module 2. Tactical level professional course Marine Corps, L-1B (MC)			
MC 1	Command and control and tactics of marine units	10,0	Examination
MC 2	Combat use of combat vehicle weapons and fire training	5,0	Examination
MC 3	Airborne training	2,0	Credit
MC 4	Structure of armoured vehicles	1,0	Credit
MC 5	Driving combat vehicles	0,5	Credit
MC 6	Operation of armoured vehicles	1,5	Credit
Total per module		20,0	
Total credits for the programme		40,0	

2.2 Correspondence of programme competences to the components of the educational programme

	MP 1	MP 2	MP 3	MP 4	MP 5	MP 6	MP 7	MP 8	MP 9	MP 10	MP 11	MP 12	MP 13	MP 14	MP 15	MP 16	MC 1	MC 2	MC 3	MC 4	MC 5	MC 6
MPC-1											+											
MPC-2			+	+										+		+						
MPC-3	+			+																		
MPC-4		+																				
MPC-5					+																	
MPC-6						+																
MPC-7							+															
MPC-8								+														
MPC-9									+						+							
MPC-10										+												
MPC-11												+										
MPC-12													+									
MSC-1																	+					
MSC-2																		+				
MSC-3																			+			
MSC-4																				+		+
MSC-5																					+	+

2.3 Correspondence of learning outcomes to the components of the educational programme

	MP 1	MP 2	MP 3	MP 4	MP 5	MP 6	MP 7	MP 8	MP 9	MP 10	MP 11	MP 12	MP 13	MP 14	MP 15	MP 16	MC 1	MC 2	MC 3	MC 4	MC 5	MC 6	
LOmpt - 1											+												
LOmpt - 1			+	+										+		+							
LOmpt - 3	+			+																			
LOmpt - 4		+																					
LOmpt - 5					+																		
LOmpt - 6						+																	
LOmpt - 7							+																
LOmpt - 8								+															
LOmpt - 9									+						+								
LOmpt - 10										+													
LOmpt - 11												+											
LOmpt - 12													+										
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LOmst - 4																			+				
LOmst - 5																				+			
LOmst - 6																					+		
LOmst - 7																						+	+
LOmst - 8																						+	+
LOmst - 9																	+	+	+	+	+	+	+

3. DISTRIBUTION OF STUDY PROGRAMME COMPONENTS BY COURSES AND SEMESTERS OF STUDY

No. s/n	Academic discipline code	Name of the discipline	Final reporting (breakdown by semester)		Number of ECTS credits	Total number of hours	Audit hours (under the guidance of the SPP, instructors)				Control measure	Independent work	Distribution of classroom hours					
			examinations	credits			in total	including					Months					
								lectures	group, seminars	practical and other			1	2	3	4	5	6
			Number of weeks in a month						4	4			4	4	4	4		
			4	5			6	7	8	9			10	11	12	13	14	15
Module 1: Basic tactical course, L-1A																		
1	MP 1.1	History of wars and military art	-	1	0,5	15	10	6	4	-	2	3	-	-	-	-	-	-
2	MP 1.2	Fundamentals of military leadership	-	1	1	30	24	-	22	2	2	4	-	-	-	-	-	-
3	MP 1.3	General tactics	1	-	5	150	94	8	34	52	6	50	-	-	-	-	-	-
4	MP 1.4	Fundamentals of military management (including Troop Leading Procedures)	-	1	2	60	56	30	14	12	2	2	-	-	-	-	-	-
5	MS 1.5	Manage the day-to-day operations of the divisions	-	1	1	30	28	14	8	6	2	-	-	-	-	-	-	-
6	MS 1.6	Radiation, chemical, biological protection of units (including ecology)	-	1	0,5	15	12	4	2	6	2	1	-	-	-	-	-	-
7	MS 1.7	Military topography	-	1	1	30	18	-	12	6	2	10	-	-	-	-	-	-
8	MS 1.8	Engineering training	-	1	1	30	18	2	12	4	2	10	-	-	-	-	-	-
9	MS 1.9	Organisation of military communications	-	1	0,5	15	10	-	6	4	2	3	-	-	-	-	-	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
10	MS 1.10	Combat system of warrior survival (including tactical medicine)	-	1	2	60	38	3	17	18	2	20	-		-	-	-	-
11	MS 1.11	Statutes of the Armed Forces of Ukraine and their practical application (including drill training)	-	1	0,5	15	12	6	-	6	2	1		-	-	-	-	-
12	MS 1.12	Small arms and firearms training	-	1	3	90	64	2	26	36	4	22	-	-		-	-	-
13	MS 1.13	Fundamentals of military law and international humanitarian law	-	1	0,5	15	10	4	4	2	2	3	-	-		-	-	-
14	MS 1.14	Intelligence training	-	1	0,5	15	8	2	6	-	2	5	-	-		-	-	-
15	MS 1.15	Fundamentals of organising and conducting warfare in the electromagnetic environment and cyberspace	-	1	0,5	15	12	6	4	2	2	1	-	-		-	-	-
16	MS 1.16	Basics of using tactical-grade unmanned systems		1	0,5	15	10	4	4	2	2	3						
Total per module			1	15	20,0	600	424	91	175	158	38	138				-	-	-
Module 2. Tactical level professional course Marine Corps, L-1B (MP)																		
16	MS 1	Command and control and tactics of marine units	6	-	10,0	300	256	32	42	182	6	38	-	-	-			
17	MS 2	Combat use of combat vehicle weapons and fire training	6	-	5,0	150	144	2	62	80	6	-	-	-	-			
18	MS 3	Airborne training	-	5	2,0	60	58	6	24	28	2	-	-	-	-			
19	MS 4	Structure of armoured vehicles	-	5	1,0	30	26	-	18	8	4	-	-	-	-			
20	MS 5	Driving combat vehicles	-	5	0,5	15	11	-	-	11	4	-	-	-	-			
21	MS 6	Operation of armoured vehicles	-	6	1,5	45	40	2	16	22	4	1	-	-	-			
Total per module			2	4	20,0	600	535	42	162	331	26	39	-	-	-			
Total number of			3	20	40,0	1200	959	133	337	489	64	177						
Number of hours per week																		
Number of exams:																		
Number of credits:																		

4. PROGRAMMES OF THE EDUCATIONAL PROGRAMME COMPONENTS

4.1. MP 1.1 "History of wars and military art"

General objective of the discipline

- Training of military personnel who have a sufficient level of understanding of the forms and methods of using troops in major battles, wars and armed conflicts; the role of man and technology in the development of methods of armed struggle.

As a result of studying the discipline, students (trainees) should:

to know:

the most important wars and military conflicts in historical retrospect;
characteristic features and peculiarities of the development of martial art in the wars of the past;
interdependence of tactics on the development of weapons and military equipment;

- Perspective directions of development of the armed struggle of our time;

be able to:

identify the characteristics of armed confrontations of our time;
make informed decisions, predicting possible developments in the course of hostilities;
Conduct retrospective analysis, summarise and draw conclusions when making decisions and setting tasks.

Organisational and methodological guidelines

The discipline is designed to teach to understand the present through the analysis of the past, to master the basics of historical research methodology, to teach future military specialists a system of historical knowledge and skills, and the ability to think creatively.

The material of the discipline will enrich the knowledge of students with historical examples of the practical application of the branches of the Army in combat operations, focusing on the main forms of armed struggle, and will form the basis for independent forecasting of their development in the future.

The subject matter of the training topics and the logical sequence of their gradual study focuses on modern wars and conflicts (second half of the twentieth and early twenty-first century) with a brief excursion into ancient and modern history. Emphasis is placed on the practice of implementing the acquired knowledge in the professional activities of the officer.

The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in class under the guidance of a scientific and pedagogical employee. During all forms of training, individual, group and frontal methods of knowledge control and active learning methods are used. The current control is carried out in the form of an oral survey or written express control during the training sessions. For all types of classes, we use classrooms, computer labs, multimedia equipment, visual aids, and writing materials.

Information and methodological support:

1. White Book of the Anti-Terrorist Operation in the East of Ukraine (2014-2016) / Edited by I. Rusnak - Kyiv: NUOU, 2017.
2. Warfare in special conditions (historical examples): Study guide / P. Tkachuk, O. Kutska, C. Rogovskyi et al. Lviv: NASV, 2020.
3. Military art in local wars and armed conflicts of the 50s-80s of the twentieth century: a textbook / I. Furman, S. Sydorov, R. Pyliavets et al.
4. Military art in local wars and armed conflicts of the 90s of the twentieth and early twenty-first centuries: a textbook / I. Furman, S. Sydorov, R. Pyliavets et al.
5. Military Historical Description of the Russian-Ukrainian War (monthly publication since March 2022) / MoD, General Staff of the Armed Forces of Ukraine, Central Military Intelligence Department of the Armed Forces of Ukraine.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS,	Independent work	
1	2	3	4	5	6
		5	4	1	Topic№ 1. Introduction to military history. Wars and the development of military art from the Ancient World to the end of World War II.
1	Lecture	2	2		Classes№ 1. Factors that influenced the evolution of martial arts. 1. The place of war history and military art in the system of military science knowledge. 2. Development of means of armed struggle from the Ancient World to the end of the Second World War. 3. Wars and the development of military art before the First World War.
2	Group session	2	2		Class 2. The development of military art in the First and Second World Wars. 1. Causes, main battles and results of the First World War (1914-1918). 2. Causes, main battles and results of the Second World War (1939-1945). 3. Weapons and equipment that influenced the course of hostilities in the two world wars.
3	Independent work	1		1	Class 3. The development of military art in the leading countries of the world in the interwar period and during the Second World War. 1. Development of military art of the leading countries of the world in the interwar period. 2. The military and political situation in the world on the eve of the Second World War. 3. The development of the military art of Germany and the USSR in the Second World War.
		2	2		Theme 2. The development of martial arts in wars and armed conflicts of the second half of the twentieth century

4	Lecture	2	2		<p>Class№ 1. Wars and armed conflicts of the second half of the twentieth century.</p> <p>1. Development of new means of armed struggle and armed forces of the leading countries of the world after the Second World War.</p> <p>2. The development of military art of the leading countries of the world in local wars of the second half of the twentieth century.</p> <p>3. Causes, main operations and results of the Russian-Chechen wars.</p>
		3	2	1	<p>Topic 3. The art of war and characteristics of wars of the early twenty-first century.</p>
5	Lecture	2	2		<p>Classes№ 1. The fight against terrorism on the example of the wars of the early twenty-first century.</p> <p>1. The development of the military art of the leading countries of the world in local wars of the early twenty-first century.</p> <p>2. Causes, course and results of wars in the post-Soviet space in the 21st century.</p> <p>3. Hybrid warfare: origin and development.</p>
6	Independent work	1		1	<p>Class 2. Development of new means of armed struggle.</p> <p>1. The role and importance of precision weapons in modern warfare.</p> <p>2. Features of the use of robotics in modern wars.</p>
		3	2	1	<p>Topic 4. Formation and development of the Armed Forces of Ukraine.</p>
7	Group session	2	2		<p>Classes№ 1. Military History of Ukraine from Kyivan Rus to the Present.</p> <p>1. The military art of the princely army of the times of Kyivan Rus and the Ukrainian Cossack army.</p> <p>2. Ukrainian armed formations during the First and Second World Wars.</p> <p>3. Causes, course and development of military art during the Russian-Ukrainian war (since 2014).</p>
8	Independent work	1		1	<p>Class 2. Examples of heroic actions of the Ukrainian defence forces.</p> <p>1. Western partners' military assistance to Ukraine during its confrontation with Russia after the full-scale invasion.</p> <p>2. Examples of heroic actions of the Ukrainian Defence Forces.</p>
9	Final control	2	2	-	Credit
Total for the discipline		15	12	3	

4.2. MP 1.2 "Fundamentals of Military Leadership"

General objective of the discipline

Providing basic conceptual knowledge of the theory and practice of military leadership, developing cadets' (students') leadership competencies and skills of effective interaction in military organisational structures.

As a result of studying the discipline, students (trainees) should:

to know:

- the essence of an officer's professional activity;
- concepts and categories of military leadership;
- the main provisions of the Military Leadership Doctrine;
- common features and differences between management and leadership;
- Levels of military leadership and their manifestations in the activities of an officer;
- the essence of the mission, goals and objectives of a military leader;
- leadership values and principles;
- key concepts and structure of the Warrior ethos;
- the Cossack code of honour; officers of the UPR, UPA, and modern officers of the Armed Forces of Ukraine;
- basic requirements for a military leader;
- profile of personal and professional competences of a military leader;
- approaches to assessing and developing a military leader;
- tools for managing the experience of a military leader;

be able to:

- apply the acquired knowledge in simulated situations, everyday and combat activities;
- evaluate models of military leadership;
- identify the signs of counterproductive leadership,
- implement the values of a military leader;
- to develop the cognitive and volitional properties of a military leader,
- develop the emotional intelligence and communication competence of a military leader;

to form an individual trajectory of development and career management of a military leader;
manage the experience of a military leader.

Organisational and methodological guidelines

It is mandatory to systematically consolidate the knowledge and skills acquired in the course of studying the discipline during practical, group classes and independent study.

In the course of studying the discipline, cadets (students) should develop a holistic view of military leadership in the Armed Forces of Ukraine, values, competencies, and worldview of a military leader.

The educational material to be studied during self-study is processed in accordance with the specified time and is submitted for current and final control together with the educational material that is processed in class under the guidance of a scientific and pedagogical employee.

During all forms of classes, active teaching methods, individual, group and frontal methods of knowledge control are used. Current control is carried out in the form of an oral survey or written express control during training sessions, including electronic questionnaires in various forms by the decision of the academic staff - the head of the classes.

For all types of classes, the following facilities are used: classrooms, computer labs, multimedia equipment, visual teaching aids, writing utensils, distance learning platforms, electronic manuals, questionnaires by the decision of the academic staff member - the head of the class.

Information and methodological support

Doctrines and orders:

1. Doctrine of Military Leadership in the Armed Forces of Ukraine. OP 1-296: approved by the NGS of the Armed Forces of Ukraine. NGS of the Armed Forces of Ukraine of 22.01.2024.

Books:

2. To lead. To fight. To win. Ethos of the Marine Corps of Ukraine / edited by A. Zelinskyi. Kyiv: Ukraine Crisis Media Center with the support of the US Embassy in Ukraine and the NGO "Spirit of America", 2017 edition, 133 p.

3. Zelinsky A. Anatomy of a Warrior: Spirit, Way, Power. Kyiv: Circle of Life, 2023 edition, 215 p.

4. Zelinsky A. Semenovi zori. Lviv: Staryi Lev Publishing House, 2023. 488 c.

5. Pressfield S. Gates of Fire: The Heroic Epic of the Battle of Thermopylae. Kyiv: Nash format, edition 2023.
6. Willink D., Bebin L. Absolute responsibility. Leadership sessions from Navy SEALs. Kyiv: Knigolav, 2020 edition, 400 p.
7. Willink D. Discipline is Freedom. Kyiv: #knigolav, 2022 edition, 256 p.
8. Willink D. Leadership Strategy and Tactics / translated from English by L. Pylaeva. Kyiv: Book Chef, 2021. 368 c.
9. Resilience: Hard-won wisdom for a better life. Kharkiv: Ranok Publishing House, 2021 edition, 432 p.
10. McRaven V. G. Make your bed / translated from English by T. Zavoloko. Kyiv: KI-BOOKS Publishing Group, edition 2020, 128 p.
11. McRaven, W. The Hero's Code. Sessions from a Life Well Lived. Kyiv: KM-Books, edition 2022, 168 p.
12. McRaven, W. Sea Stories. My life in special operations. Kyiv: KM-BOOKS, 2020 edition, 408 p.

Guidelines

13. Army Leadership and The Profession ADP 6-22, July, 2019.
14. Army Leader Transitions Handbook, 2023.
15. Leader Development. FM 6-22, November, 2022.
16. Mission and Command. Command and Control of Armed Forces. ADP 6-0, July, 2019.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		10	6	4	Theme 1. Conceptual foundations of military leadership
1	Group session	4	2	2	Class 1. Fundamentals of military leadership in the Armed Forces of Ukraine. 1. Introduction to the discipline. Subject, objectives of the discipline and the procedure for its study. 2. Officer as a profession. 3. The essence of military leadership and management. 4. Model of requirements for a military leader. Independent work: Founding documents on military leadership. 1. Basic requirements of the Doctrine and other founding documents on military leadership.
2	Group session	2	2	-	Class 2. Mission, purpose and tasks of a military leader. 1. Mission and purpose of a military leader. 2. Tasks of a military leader-officer. 3. Tasks of a military leader-sergeant.
3	Group session	4	2	2	Class 3. Principles of military leadership. 1. Principles of military leadership in the Armed Forces of Ukraine. 2. Principles of military leadership in the armies of NATO member states. 3. John Maxwell, Jocko Willink and others are in the lead. Independent work. Levels of military leadership. 1. Tactical level of military leadership. 2. Operational level of military leadership.

					4. Strategic level of military leadership.
		6	6	-	Topic 2. Values of a military leader.
4	Group session	2	2	-	Class 1. Values of a military leader. <ol style="list-style-type: none"> 1. The essence of the value "Honor". 2. The essence of the Sustainability value. 3. The essence of the value "Professionalism". 4. The essence of the Unity value. 5. Values of a military leader in the armies of NATO member states.
5	Group session	2	2	-	Class 2. The Warrior Ethos. <ol style="list-style-type: none"> 1. Key concepts and structure of the Warrior ethos: "Spirit", "Path", "Power". 2. Comparison of the ethos of the Armed Forces of Ukraine: The ethos of the sergeant, Ethos of the Territorial Defence Forces, Ethos of the Marines.
6	Seminar (round table)	2	2	-	Class 3. Code of honour for national military leaders. <ol style="list-style-type: none"> 1. Code of Cossack honour. 2. Code of Honour of Officers of the Ukrainian People's Republic. 3. The Code of Honour of the Officers of the Ukrainian Insurgent Army. 4. The Code of Honour of a Modern Officer of the Armed Forces of Ukraine.
		8	8	-	Topic 3. Competences of a military leader (Profile of a military leader)
7	Group session	2	2	-	Class 1. Model of military leadership development. <ol style="list-style-type: none"> 1. Value and competence model of a military leader: values, experience, personal and professional competences. 2. Ecosystem of competences of a military leader: personal and professional. 3. Professional (military-specific) competencies of a military leader.
8	Group session	2	2	-	Class 2. Emotional and communication competence of a military leader. <ol style="list-style-type: none"> 1. Emotional self-management of the military leader (Self-management) and management of the emotional state of subordinates and empathy of the military leader. 2. Establishing trust and mutual respect in the team. 3. Establishing effective communication with the team, providing feedback and constructive criticism. 4. Crisis communication, conducting complex negotiations.
9	Group session	2	2	-	Class 3. Digital and managerial competence of a military leader.

					<ol style="list-style-type: none"> 1. Basic digital skills of a modern military leader. 2. Self-determination (self-actualisation) and self-motivation of a military leader. 3. Motivation and development of personnel. 4. 4. Counterproductive military leadership.
10	Seminar (round table)	2	2	-	<p>Session 4: Intelligence and thinking of a military leader.</p> <ol style="list-style-type: none"> 1. Analytical, systematic, critical thinking of a military leader. 2. Innovative (creative, out-of-the-box, unconventional) thinking of the military leader. 3. Examples of unconventional thinking of modern military leaders (domestic and foreign).
		4	4	-	Topic 4. Assessment and development of a military leader.
11	Practical session	2	2	-	<p>Class 1. Assessment of a military leader.</p> <ol style="list-style-type: none"> 1. Assessment of leadership qualities at the tactical level. 2. Assessment of leadership skills at the operational level. 3. Assessment of leadership qualities at the strategic level. 4. Problematic Aspects and Promising Approaches to Assessing Military Leaders (Domestic and Foreign Experience).
12	Group session	2	2	-	<p>Session 2. Development of military leaders.</p> <ol style="list-style-type: none"> 1. Formation of an individual trajectory of development of a military leader (career management of a military leader). 2. Managing the experience of a military leader.
13	Final assessment	2	2		Credit
Total for the discipline		30	26	4	

4.3. MP 1.3 "General Tactics"

General objective of the discipline

Training of a serviceman who is able to apply the theoretical provisions of general combat, the basics of unit management and the requirements of guidelines for the design of combat graphic documents when planning combat operations; practically perform movement on the battlefield as part of combat groups and manage combat groups in the main types of combat; use a mechanised squad, mechanised platoon in modern conditions of general combat, taking into account the experience of using units in the Russian-Ukrainian war

As a result of studying the discipline, students (trainees) should:

to know:

the basics of general combat;

command and control requirements, battle planning procedures based on NATO military command and control procedures;

the procedure for drawing up combat graphic documents;

organisational and staffing structure, tactical and technical characteristics of weapons of mechanised units (squad, platoon);

the role, place and procedure for the use of mechanised units (squad, platoon) in a general combat;

Combat capabilities, tactical and technical characteristics of the weapons of the added units and the procedure for their use in combat;

the procedure for managing regular and attached units (battlegroup, squad, platoon) during combat;

peculiarities of organising the location of a mechanised platoon;

peculiarities of performing tasks in sentry protection by units of a mechanised platoon;

peculiarities of marching by mechanised units, actions of marching guard units;

tactics of mechanised units in defensive combat;

peculiarities of preparing and conducting defensive combat;

tactics of mechanised units in offensive combat;

peculiarities of preparing and conducting offensive combat;

be able to:

plan the actions of units in accordance with NATO military command and control procedures;

Prepare a mechanised unit with reinforcements for combat (tactical actions);
make decisions in a timely manner, set tasks, and achieve their fulfilment;
prepare combat documents for the platoon;
use the unit's firepower;
Manage staff and additional units in the course of performing assigned tasks;
to organise interaction with units of the armed services and special forces in a general battle.

Organisational and methodological guidelines

The subject of the discipline is the theory and practice of using mechanised units in the main types of general combat (tactical actions).

Group classes are conducted to study the theoretical provisions of the use of mechanised units in the main types of combined arms combat (tactical actions). In the course of group sessions, the cadets (students) learn the educational material by performing individual tactical, graphic (graphical and calculation) tasks.

Group exercises are conducted to train cadets (students) in the work of a unit commander to prepare him/her for actions in various tactical situations and to manage units during the course of actions. During group exercises, communication equipment and topographic maps are used, and during exercises in the field, weapons and military equipment, weapons and imitation are used. To mark the enemy's actions, enemy marking units may be involved and the target situation of the training ground may be used. During group exercises, all cadets (students) act as a unit commander, and the exercise leader acts as a senior commander (company commander).

Tactical and formation exercises are conducted on tactical training fields and other facilities training grounds, designated areas. Other exercises are conducted in classrooms, specialised classes, simulators (simulation equipment) and training grounds.

Information and methodological support

1. SBP 3-(01,02,04).58(59) Combat Statute of the Mechanised and Tank Troops of the Land Forces of the Armed Forces of Ukraine, Part III (platoon, section, tank): approved by Order of the Commander of the Land Forces of the Armed Forces of Ukraine No. 238 25.05.2016 (as amended in 2017-2023).
2. TP 7-00(194)11.01. Collection of standards for combat training of the Land Forces of the Armed Forces of Ukraine - Kyiv: KP CSR of the Armed Forces of Ukraine, 2021 (as amended in 2023).

3. OP 7-(01,03-05)215.58(59) Album of diagrams of "Methodological materials for the training of tactical groups" (squad, platoon) - Zhytomyr: Centre for Operational Standards and Methods of Training of the Armed Forces of Ukraine, edition 2023.
4. Methodological materials "Preparation of assault groups (squad, platoon) for assault operations." - Kyiv: Main Doctrine and Training Directorate of the General Staff of the Armed Forces of Ukraine, edition 2023.
5. Weapons of the Russian-Ukrainian war of 2022-2023: Handbook-catalogue of the main types of weapons and military equipment used by the opposing sides during the repulsion of the large-scale invasion of Ukraine by the Russian Federation (24.02.2022 - 30.06.2023) / Ministry of Defence of Ukraine, Office of the Commander-in-Chief of the Armed Forces of Ukraine, General Staff of the Armed Forces of Ukraine, Centre for Military History Research of the Armed Forces of Ukraine. - Kyiv: Lira-K Publishing House, 2023. - 243 p.
6. MS 3-00(102).56 Methodological Recommendations "List and Structure of Combat (Formalised) Documents on the COIN to be Practised in the Units of the Armed Forces of Ukraine at the Tactical Level during the Planning and Conduct of Combat (Actions)" (squad, platoon, company, battalion and their levels) - Kyiv: Main Doctrine and Training Directorate of the General Staff of the Armed Forces of Ukraine, edition 2022.
7. Temporary Procedure for Processing Operational (Combat) Documents. Order of the Commander-in-Chief of the Armed Forces of Ukraine of 11.09.2020 No. 140.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		21	14	7	Topic 1: Fundamentals of Combined Arms Combat.
1	Lecture	3	2	1	<p>Class 1: Composition, purpose of the Armed Forces of Ukraine and main types of weapons and military equipment.</p> <p>1. The order of passing the discipline.</p> <p>2. Composition and purpose of the branches of the Armed Forces of Ukraine. The use of the Armed Forces of Ukraine and branches of the armed forces in joint military operations.</p> <p>3. Combined arms combat, its components and their characteristics. Principles of combined arms combat.</p> <p>Independent work. Composition, purpose of the Armed Forces of Ukraine and the main types of weapons and military equipment.</p> <p>1. Combined arms combat, its components and their characteristics. Tactical and technical characteristics of the main weapons of the Armed Forces of Ukraine.</p> <p>2. Rehearsing tactical manoeuvre schemes by units and fire.</p>

2	Group session	3	2	1	<p>Session 2: The procedure for practicing diagrams and combat graphic documents.</p> <p>1. Fundamentals of unit management in combat (tactical actions). The work of a squad (platoon, company) commander in preparing combat (actions) (according to the TLP structure).</p> <p>2. The procedure for developing schemes and designing a working map.</p> <p>3. The main tactical symbols and basic abbreviations used in combat graphic documents.</p> <p>Independent work. Procedure for developing schemes and combat graphic documents.</p> <p>1. The symbols of the units of the Land Forces of the Armed Forces of Ukraine.</p> <p>2. Symbols of weapons and military equipment of the Land Forces of the Armed Forces of Ukraine.</p>
3	Lecture	3	2	1	<p>Session 3: Organisational structure, weapons and military equipment of units of a mechanised battalion of the Armed Forces of Ukraine.</p> <p>1. Purpose, organisational and staffing structure of units of a mechanised battalion.</p> <p>2. Forms and methods of using units based on the experience of the Russian-Ukrainian war.</p> <p>Independent work. Organisational structure, weapons and military equipment of units of a mechanised battalion of the Armed Forces of Ukraine.</p> <p>1. Purpose, capabilities, organisational and staffing structure of logistics, technical and medical support units of a mechanised battalion.</p> <p>2. Developing a scheme of the organisational and staffing structure of a mechanised battalion.</p>
4	Group session	3	2	1	<p>Exercise 4. Tactics of actions of units of a mechanized battalion in the main types of combat (tactical actions).</p> <p>1. Structure of a defensive battle of a mechanised battalion and main tactical indicators.</p> <p>2. Construction of an offensive battle of a mechanised battalion and main tactical indicators.</p> <p>3. Construction of the marching order of the MB on the march and the main tactical indicators.</p> <p>Location of the MB on the ground and the main tactical indicators.</p> <p>Independent work. Tactics of actions of units of a mechanized battalion in the main types of combat (tactical actions).</p> <p>1. Construction of the marching order of a mechanised battalion on the march and the main tactical indicators. Construction of defensive, offensive battle of a mechanised battalion and main tactical indicators.</p> <p>2. Location of the MB on site and key tactical indicators.</p>

5	Group session	3	2	1	<p>Exercise 5. Actions of soldiers and combat (tactical) groups in combat.</p> <p>1. Techniques and methods of action of a soldier and combat (tactical) groups in defensive (offensive) combat.</p> <p>2. Commands, signals given to control the actions of combat (tactical) groups in defensive (offensive) combat.</p> <p>Independent work. Actions of a soldier, combat (tactical) groups in combat.</p> <p>1. Training in giving commands to control the actions of combat (tactical) groups in a defensive battle.</p> <p>2. Training in giving commands to control the actions of combat (tactical) groups in offensive combat.</p>
6	Group session	3	2	1	<p>Exercise 6. Techniques and methods of action of combat (tactical) groups during assault operations.</p> <p>1. Composition of the assault group, division into subgroups and their tasks.</p> <p>2. Tactics and methods of action of the trench entry subgroup.</p> <p>3. Techniques and methods of action of the fire support subgroup.</p> <p>Independent work. Techniques and methods of action of combat (tactical) groups during assault operations. Preparation for the final control for the semester.</p> <p>1. Practice the diagram: Options for building an assault group's combat order.</p> <p>2. Training in issuing commands to control the actions of the capture subgroups and fire support during assault operations.</p>
7	Group session	3	2	1	<p>Exercise 7. Combat capabilities of mechanised units.</p> <p>1. General provisions. Capabilities of mechanised units to combat enemy armoured vehicles.</p> <p>2. Capabilities of mechanised units to destroy enemy manpower. Manoeuvring capabilities.</p> <p>Independent work. Combat capabilities of mechanised units.</p> <p>1. Calculation of the combat capabilities of a mechanised unit by variants of the given sets of forces and means.</p> <p>2. Study of standards for tactical training of mechanised units.</p>
		33	22	11	Topic 2. Tactics of actions of a mechanised unit in the main types of combat (tactical actions).

8	Group session	3	2	1	<p>Class 1: Movement of the mechanised unit.</p> <p>1. General provisions for the movement of units. 2. Peculiarities of movement of units on foot. Actions of personnel in combat tactical groups. 3. Organisation of marching guard on the march: marching guard bodies, composition and tasks. 4. Actions of units on the march.</p> <p>Independent work. Movement of a mechanised unit.</p> <p>1. General provisions for the movement of units. Organisation of marching guard on the march. To work out the scheme "Actions of a foot patrol during reconnaissance (inspection) of local objects (objects) on the route of movement". 2. Develop the following scheme: "Techniques of movement of units on foot".</p>
9	Group session	3	2	1	<p>Class 2. Location of the mechanised department on site.</p> <p>1. General provisions for the location of subdivisions, features of the location of the mechanised department. 2. Organisation of direct protection. Actions of personnel as part of combat tactical groups, in direct protection bodies (patrols, secret). 3. Watch guard, actions of the department in the watch guard.</p> <p>Independent work. Location of the mechanised department on site.</p> <p>1. General provisions of the location of units. Watch guard, actions of the unit in the watch guard. Duties of the observer. 2. Work out the following scheme: "Actions of a mechanised unit as a sentry post".</p>
10	Group session	3	2	1	<p>Class 3: Defence of a mechanised unit.</p> <p>1. General provisions of defensive combat. Place and role of the mechanised unit in defensive combat. 2. Building a defensive battle of a mechanised unit. 3. Preparation of a defensive battle. 4. Conducting defensive combat. Actions of the unit with division into combat groups.</p> <p>Independent work. Defence of a mechanised unit.</p> <p>1. General provisions of defensive combat. To work out the scheme: "Construction of a defensive battle of a mechanised unit". 2. Contents of the squad fire card.</p>

11	Group session	3	2	1	<p>Class 4. Peculiarities of using a mechanised branch in an urban area.</p> <p>1. Procedure for movement within combat tactical groups in a settlement. 2. Features of movement inside the building. 3. Features of building defence as part of combat tactical groups.</p> <p>Independent work. Peculiarities of using a mechanised department in an urban area.</p> <p>1. To practice schemes of variants of combat orders of a mechanised squad as part of combat (tactical) groups during operations in urban areas. 2. Defence of the house</p>
12	Group session	3	2	1	<p>Session 5. Offensive of the mechanised division. Final control (test) for the semester.</p> <p>1. General principles of offensive combat. Place and role of the mechanised squad in the offensive battle. Construction of an offensive battle of a mechanised squad. 2. Preparation of an offensive battle. 3. Conducting offensive combat. Actions of the unit with division into combat groups.</p> <p>Independent work. Advance of a mechanised unit.</p> <p>1. Combat formations of a mechanised division in the offensive. 2. To work out the schemes of variants of the construction of the combat order of a mechanised squad in the offensive with the division into combat groups.</p>
					FIELD TRAINING
13	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TEF "Actions of a mechanised unit while moving on foot".</p> <p>1. Training in giving commands to change marching orders. 2. Training in hand signalling while moving on foot. 3. Study of the conditions for meeting tactical training standards within the unit.</p> <p>Exercise 6. Actions of a mechanised unit when moving on foot.</p> <p>1. Techniques of movement on foot, when approaching the enemy. 2. Actions of the sentry unit.</p>

14	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TSE "Actions of a mechanised unit during location on site".</p> <p>1. Training in setting tasks (observer, patrol, secret).2. Learning the procedure for repelling an attack by a sabotage and reconnaissance unit.</p> <p>3. Study of the conditions for meeting tactical training standards within the unit.</p> <p>Exercise 7. Actions of a mechanised unit while in place.</p> <p>1. Engineering equipment, camouflage of elements of the location area.</p> <p>2. Actions of the security authorities.</p>
15	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TEF "Management of actions of a mechanised unit in a defensive battle".</p> <p>1. Training in issuing commands to control the actions of the unit and fire in defensive combat.</p> <p>2. Study of the conditions for meeting tactical training standards. Preparation of training sites.</p> <p>Exercise 8. Controlling the actions of a mechanised unit in a defensive battle.</p> <p>1. Preparation of a defensive battle. Fulfilment of tactical (engineering) training standards.</p> <p>2. Management of the unit's actions in combat. Fulfilment of tactical training standards.</p>
16	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TSE "Management of actions of a mechanised unit in an offensive battle".</p> <p>1. Training in issuing commands to control the actions of the unit and fire in offensive combat.</p> <p>2. Study of the conditions for meeting tactical training standards. Preparation of training sites.</p> <p>3. To work out the schemes of variants of building the combat order of a mechanised squadron in the offensive with the division into combat groups.</p> <p>Exercise 9. Controlling the actions of a mechanised unit in an offensive battle.</p> <p>1. Preparation of an offensive battle. Fulfilment of tactical training standards.</p> <p>2. Management of the unit's actions in combat. Fulfilment of tactical training standards.</p>
17	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TOC "Management of actions of a mechanised unit in an urban area".</p> <p>1. Learning the rules of tactical actions. Watching training films.</p> <p>2. Preparation of training places.</p> <p>Class 10. Managing the actions of a mechanised unit in an urban area.</p> <p>1. Procedure for movement within combat tactical groups in a settlement.</p> <p>2. Actions of combat tactical groups inside the building.</p>

18	Tactical and drill training	3	2	1	<p>Independent work. Preparation for the TSE "Management of actions of a mechanised unit during night operations".</p> <ol style="list-style-type: none"> 1. Training in giving signals (sound, light) to control the actions of the squad and fire in offensive combat. 2. Study of the characteristics and operation of night vision devices, thermal imagers and other technical means of reconnaissance and surveillance. Preparation of training places. <p>Exercise 11. Managing the actions of a mechanised unit when performing tasks at night.</p> <ol style="list-style-type: none"> 1. Transition to night actions. 2. Tactical actions of the unit by type of combat. 3. Performing tactical actions (tasks) of reconnaissance (surveillance, eavesdropping) and security with the use of technical means of reconnaissance and surveillance.
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		9	6	3	Topic 3: Tactics of a mechanised platoon in the main types of tactical operations.
19	Group session	3	2	1	<p>Session 1: March of a mechanised platoon and actions in marching guard.</p> <ol style="list-style-type: none"> 1. General provisions. The experience of the Russian-Ukrainian war. 2. Preparing the platoon for the march. 3. Peculiarities of preparing a platoon for actions in marching guard. 4. Management of platoon actions in marching guard. <p>Independent work. March of a mechanised platoon and actions in marching guard.</p> <ol style="list-style-type: none"> 1. Actions of platoon units when ambushed. 2. Develop the following schemes: "Areas and boundaries assigned to the platoon during the march"; "Construction of the platoon's marching order when moving as part of the main force".
20	Group session	3	2	1	<p>Exercise 2. Positioning of a mechanised platoon on the ground and actions in sentry duty.</p> <ol style="list-style-type: none"> 1. General provisions. The experience of the Russian-Ukrainian war. 2. Prepare the platoon for deployment. 3. Peculiarities of preparing a platoon for actions in sentry duty. 4. Management of platoon actions in guard posts and other security bodies. <p>Independent work. Positioning of a mechanised platoon on the ground and actions in sentry duty.</p> <ol style="list-style-type: none"> 1. Peculiarities of the location of units in base camps. 2. Rehearse the following diagrams: "Location of a mechanised platoon in place within a company", "Actions of a mechanised platoon in a sentry outpost".

21	Group session	3	2	1	<p>Exercise 3. Participation in stabilisation operations and other tasks.</p> <p>1. Peculiarities of participation of troops in stabilisation operations.</p> <p>2. Peculiarities of participation in the performance of other tasks specified by the legislation of Ukraine.</p> <p>Independent work. Participation in stabilisation operations and other tasks.</p> <p>1. Peculiarities of preparing a platoon for participation in stabilisation operations.</p> <p>2. Develop the following schemes: "Participation of a mechanised platoon in the search for enemy subversive forces and illegal armed groups", "Participation of a mechanised platoon in the protection and defence of important objects and communications".</p>
		42	28	14	<p>Topic 4. Tactics of a mechanised platoon in a defensive battle.</p>
22	Lecture	3	2	1	<p>Session 1: Mechanised platoon in defensive combat.</p> <p>1. Place, tasks of a mechanised platoon in a defensive battle.</p> <p>2. Building the defence of a mechanised platoon.</p> <p>3. Defensive combat.</p> <p>Independent work. A mechanised platoon in defensive combat.</p> <p>1. Place and tasks of a mechanised platoon in a defensive battle. Study the experience of using mechanised units in defensive combat during the Russian-Ukrainian war.</p> <p>2. Practice the diagram: "Diagram of a mechanised platoon's stronghold".</p>

23	Group session	4	2	2	<p>Class 2: Preparing for a defensive battle.</p> <p>1. Organisation of the battle. 2. Preparing units for combat. 3. Take up the defence and prepare the platoon's stronghold. 4. Practical work of the platoon commander in subordinate units. Independent work. Preparation of a defensive battle. 1: Peculiarities of the work of a mechanised platoon commander depending on the conditions of transition to defence. 2. Combat documents developed by the platoon in preparation for defensive combat. 3) Preparation of abstracts and reports for the seminar. Independent work. Preparation for the seminar. Preparation and conduct of defensive combat in special conditions. 1. Definition (purpose) of a defensive battle. The place of a mechanised platoon in a defensive battle. Sequential execution of defensive combat tasks. 2. Preparation and conduct of defensive combat of mechanised units based on the experience of the Russian-Ukrainian war. 3. Preparation and conduct of defensive combat of mechanised units in special conditions.</p>
24	Seminar	2	2	2	<p>Class 3: Preparation and conduct of defensive combat in special conditions.</p> <p>1. Definition (purpose) of a defensive battle. The place of a mechanised platoon in a defensive battle. Sequential execution of defensive combat tasks. 2. Preparation and conduct of defensive combat of mechanised units based on the experience of the Russian-Ukrainian war. 3. Preparation and conduct of defensive combat of mechanised units in special conditions.</p>
					<p>A set of group exercises on the topic: "Transition of a mechanised platoon to defence in the absence of a collision with the enemy. Defensive combat".</p>

25	Group exercise	3	2	1	<p>Independent work. Preparation for a group exercise. "Preparing a mechanised platoon for defence in the absence of a collision with the enemy".</p> <ol style="list-style-type: none"> 1. Study of the tactical task. Preparation of a working map, drawing the initial situation. 2. The content of the platoon leader's work in understanding the task, calculating time, and assessing the situation. 3. Contents of the paragraphs of the preliminary combat order. <p>Exercise 4. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 1, 2.</p> <ol style="list-style-type: none"> 1. Understand the task at hand. 2. Calculating the time. Assessment of the situation. 3. Development of the first preliminary combat order. 4. Communicating the first preliminary combat order to subordinates.
26	Group exercise	3	2	1	<p>Independent work. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 1, 2.</p> <ol style="list-style-type: none"> 1. Record the results of the task awareness on the platoon leader's work card. Finalising the time calculation 2. Training in communicating the first preliminary combat order. <p>Exercise 5. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 3: "Development of a preliminary plan".</p> <ol style="list-style-type: none"> 1. Analysis of the task. 2. Developing options for action.
27	Group exercise	3	2	1	<p>Independent work. Preparation of a mechanised platoon for defence in the absence of contact with the enemy. Stage 3: "Development of a preliminary plan".</p> <ol style="list-style-type: none"> 1. Analysing the options for action. Comparison and selection of the final course of action 2. Development of the battle plan. Preparation of a working map for the report of the plan. <p>Exercise 6. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 3: "Development of a preliminary plan".</p> <ol style="list-style-type: none"> 1. Report on the battle plan. 2. Practice the second preliminary combat order.

28	Group exercise	3	2	1	<p>Independent work. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 6: "Completion of battle planning".</p> <ol style="list-style-type: none"> 1. Formulation of combat missions. 2. Details of management and interaction issues. 3. Detailing the issues of comprehensive support for actions. <p>Exercise 7. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Stage 7: "Issuing a combat order".</p> <ol style="list-style-type: none"> 1. Issuing a combat order. 2. Setting combat tasks for subordinates.
					FIELD TRAINING
29	Tactical exercise	6	4	2	<p>Independent work. Preparation for the task "Preparation of a mechanized platoon for defence in the absence of a collision with the enemy". Stage 5, 7.</p> <ol style="list-style-type: none"> 1. Completion of a combat order. Training in setting combat tasks for subordinates. 2. Content of the reconnaissance. 3. Preparation of a working map, devices for mapping the situation for work in the field. Preparation of equipment. <p>Exercise 8. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Phase 5, 7.</p> <ol style="list-style-type: none"> 1. Conducting a reconnaissance. 2. Issuance of a combat order.
30	Tactical exercise	3	2	1	<p>Independent work. Preparation for the task "Preparation of a mechanised platoon for defence in the absence of a collision with the enemy". Stage 4, 8.</p> <ol style="list-style-type: none"> 1. Training in setting combat tasks for subordinates on the ground (on a terrain model). 2. Content of the organisation of management, interaction and comprehensive support on the terrain layout. 3. Development of call sign forms for officials, tables of control and interaction signals. <p>Exercise 9. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Phase 4, 8.</p> <ol style="list-style-type: none"> 1. Prepare the terrain layout. 2. Organisation of management, interaction and comprehensive support on the terrain layout.

31	Tactical-drill exercise	6	4	2	<p>Independent work. Preparation for the TPE "Preparation of a mechanised platoon for defence in the absence of a collision with the enemy". Stage 4, 8.</p> <p>1. Study of the conditions for the implementation of tactical training standards in a platoon (squad) in defensive combat.</p> <p>2. Preparation of training sites and training leaders at training sites.</p> <p>Exercise 10. Preparation of a mechanised platoon for defence in the absence of a collision with the enemy. Phase 4, 8.</p> <p>1. Unit preparation and movement. Checking readiness. Fulfilment of tactical training standards as part of a platoon (squad).</p>
32	Tactical exercise	3	2	1	<p>Independent work. Preparation for the task "Management of actions of a mechanized platoon in the course of defensive combat".</p> <p>1. Refine the working map.</p> <p>2. Prepare a table of call signs, a table of control and interaction signals.</p> <p>Exercise 11. Controlling the actions of a mechanised platoon in defensive combat.</p> <p>1. Platoon management in defensive combat: destruction of enemy intelligence; inflicting damage on the advancing enemy; fighting an attacking enemy; Destruction of the enemy trying to bypass or break into the platoon stronghold.</p> <p>2. Fighting in the trenches, participating in a counterattack.</p>
33	Tactical exercise	3	2	1	<p>Independent work. Preparation for the task "Controlling the actions of a mechanised platoon during a defensive battle at night".</p> <p>1. Light support for defensive combat at night. Developing guidelines for preparing a platoon for night operations. Refinement of the working map on light support.</p> <p>2. Revision of the table of control signals and interaction on lighting issues</p> <p>Exercise 12. Controlling the actions of a mechanised platoon during a defensive battle at night. Final control (testing) for the semester</p> <p>1. Transition to night operations. Preparing units for defensive combat at night.</p> <p>2. Platoon management during a defensive battle at night: - destruction of enemy reconnaissance; - defeat of the advancing enemy; - fighting with the attacking enemy; - destruction of the enemy trying to bypass or break into the platoon stronghold.</p>

		38	24	14	Topic 5. Tactics of a mechanised platoon in an offensive battle.
34	Lecture	3	2	1	<p>Class 1: Mechanised platoon attack.</p> <p>1. Place and role of a mechanised platoon in an offensive battle. 2. Tasks of a mechanised platoon in an offensive battle, their content. 3. Combat order, system of fire of a mechanized platoon in offensive combat. 4. 4. Conducting offensive combat.</p> <p>Independent work. Advance of a mechanised platoon.</p> <p>1. Place and role of a mechanised platoon in an offensive battle. Tasks of a mechanised platoon in an offensive battle. 2. Study the experience of using mechanised units in offensive combat during the Russian-Ukrainian war. 3) Rehearse the scheme: "Actions of a mechanised platoon in an offensive battle".</p>
35	Group session	4	2	2	<p>Class 2: Preparing and conducting offensive combat.</p> <p>1. Features of the platoon commander's work in planning an offensive battle. 2. Peculiarities of managing platoon actions in offensive combat.</p> <p>Independent work. Preparing and conducting offensive combat.</p> <p>1. Develop the following scheme: "Areas and boundaries to be assigned in an offensive with a deep advance". 2. Rehearse the following scheme: "The order of regrouping, replacement for taking the initial position in the offensive from the position of direct contact with the enemy". 3. Preparation of abstracts and reports for the seminar.</p> <p>Independent work. Preparation for the seminar. Preparation and conduct of offensive combat in special conditions.</p> <p>1. Definition (purpose) of an offensive battle. The place of the mechanised platoon in an offensive battle. Sequential execution of offensive combat tasks. 2. Preparation and conduct of offensive combat of mechanised units based on the experience of the Russian-Ukrainian war. 3. Preparation and conduct of offensive combat of mechanised units in special conditions.</p>
36	Seminar session	2	2		<p>Class 3: Preparing and conducting offensive combat in special conditions.</p> <p>1. Definition (purpose) of an offensive battle. The place of the mechanised platoon in an offensive battle. Sequential execution of offensive combat tasks. 2. Preparation and conduct of offensive combat of mechanised units based on the experience of the</p>

					Russian-Ukrainian war. 3. Preparation and conduct of offensive combat of mechanised units in special conditions.
					A set of group exercises on the topic: "Advance of a mechanised platoon with a move from depth".
37	Group exercise	3	2	1	Independent work. Preparation of a mechanised platoon for an offensive with a move from depth. Stage 1, 2. 1. Study of the tactical task. Preparation of a working map, drawing the initial situation. 2. The content of the platoon leader's work in understanding the task, calculating time, and assessing the situation. 3. Contents of the paragraphs of the preliminary combat order. Exercise 4. Preparation of a mechanised platoon for an advance from depth. Phase 1, 2. 1. Understand the task at hand. 2. Calculating the time. Assessment of the situation. 3. Development of the first preliminary combat order. 4. Communicating the first preliminary combat order to subordinates.
38	Group exercise	3	2	1	Independent work. Preparation of a mechanised platoon for an offensive with a move from depth. Stage 3: "Development of a preliminary plan". 1. Record the results of task awareness on the platoon commander's working card. Finalisation of the time calculation, preliminary combat order. 2. Training in the delivery of the first preliminary combat order (PCO 1). Exercise 5. Preparation of a mechanised platoon for an attack from depth. Stage 3: "Development of a preliminary plan". 1. Analysis of the task. 2. Developing options for action.
39	Group exercise	3	2	1	Independent work. Preparation of a mechanised platoon for an offensive with a move from depth. Stage 3: Development of a preliminary plan. 1. Analysing the options for action. Comparison and selection of the final course of action 2. Development of the battle plan. Preparation of a working map for the report of the plan. Exercise 6. Preparing a mechanised platoon for an advance from depth. Stage 3: "Developing a preliminary plan" 1. Report on the battle plan. 2. Practice the second preliminary combat order.

40	Group Tactical exercise	3	2	1	<p>Independent work. Preparation of a mechanised platoon for an advance from depth. Stage 6: "Completion of battle planning"</p> <ol style="list-style-type: none"> 1. Formulation of combat missions. 2. Details of management and interaction issues. 3. Detailing the issues of comprehensive support for actions. <p>Exercise 7. Preparation of a mechanised platoon for an advance from depth. Stage 7: "Issuing a combat order".</p> <ol style="list-style-type: none"> 1. Issuing a combat order. 2. Setting combat tasks for subordinates.
					FIELD ACCESS
41	Tactical exercise	4	2	2	<p>Independent work. Preparation for the task "Preparation of a mechanized platoon for an offensive with a move from depth". Stage 5, 7.</p> <ol style="list-style-type: none"> 1. Completion of a combat order. Training in setting combat tasks for subordinates. 2. Content of the reconnaissance. 3. Preparation of a working map, devices for mapping the situation for work in the field. Preparation of equipment. <p>Exercise 8. Preparation of a mechanised platoon for an advance from depth. Phase 5, 7.</p> <ol style="list-style-type: none"> 1. Conducting a reconnaissance. 2. Issuance of a combat order.
42	Tactical exercise	3	2	1	<p>Independent work. Preparation for the task "Preparation of a mechanised platoon for an offensive with a deep advance". Stage 4, 8.</p> <ol style="list-style-type: none"> 1. Training in setting combat tasks for subordinates on the ground (on a terrain model). 2. Content of the organisation of management, interaction and comprehensive support on the terrain layout. 3. Development of call sign forms for officials, tables of control and interaction signals. <p>Exercise 9. Preparation of a mechanised platoon for an attack from depth. Phase 4, 8.</p> <ol style="list-style-type: none"> 1. Prepare the terrain layout. 2. Organisation of management, interaction and comprehensive support on the terrain layout.

43	Tactical-drill exercise	5	2	3	<p>Independent work. Preparation for the TPE "Preparation of a Mechanised Platoon for an Advance from Depth". Stage 4, 8.</p> <p>1. Study of the conditions for the implementation of tactical training standards in a platoon (squad) in an offensive battle.</p> <p>2. Preparation of training sites and training leaders at training sites.</p> <p>Exercise 10. Preparation of a mechanised platoon for an advance from depth. Stage 4.8.</p> <p>1. Unit preparation and movement. Checking readiness. Fulfilment of tactical training standards as part of a platoon (squad).</p> <p>Independent work. Preparation for the task "Controlling the actions of a mechanised platoon during an offensive battle".</p> <p>1. Refine the working map.</p> <p>2. Prepare a table of call signs, a table of control and interaction signals.</p>
44	Tactical exercise	2	2		<p>Exercise 11. Controlling the actions of a mechanised platoon in an offensive battle.</p> <p>1. Platoon management during offensive combat: platoon management during the advance from the depths; platoon management during the attack on the front line of enemy defence and the capture of the object of attack. Combat in trenches; platoon management during combat in the depths of enemy defence.</p> <p>2. Managing a platoon in pursuit of the enemy. Securing a favourable position.</p>
45	Tactical exercise	3	2	1	<p>Independent work. Preparation for the task "Controlling the actions of a mechanised platoon during an offensive battle at night".</p> <p>1. Light support for offensive combat at night. Developing guidelines for preparing a platoon for night operations. Finalising the working map on lighting support.</p> <p>2. Revision of the table of control signals and interaction on lighting issues</p> <p>Exercise 12. Managing the actions of a mechanised platoon during an offensive battle at night.</p> <p>1. Transition to night operations. Preparing units for offensive combat at night.</p> <p>2. Platoon management during offensive combat at night: platoon management during the advance from the depths; platoon management during the attack on the front line of enemy defence and the capture of the object of attack. Fighting in trenches; platoon management during combat in the depths of enemy defence.</p>

46		1	1	<p>Independent work. Completion of preparation for the final control - EXAM.</p> <p>1. General provisions (fundamentals) of offensive combat, defensive combat, movement of units, positioning in place, participation in stabilisation actions of troops, comprehensive support of combat (actions).</p> <p>2. The sequence and content of the work of the mechanised platoon (squad) commander in preparing for combat in accordance with the 8 stages of TLP (Troop Leading Procedures). Management in the course of combat (actions)</p> <p>3. Organisational and staffing structure, technical specifications of weapons and military equipment of the units of the Land Forces of the Armed Forces of Ukraine (<i>MB, MR, Mv, MvD, RMS, Gv, Kulv, Ptv, Zrv, Tv</i>).</p> <p>4. Preparation of combat documents, basic tactical signs, and abbreviations.</p>
47	Final control	6	6	Examination
Total for the discipline		150	100	50

4.4. MP 1.4 "Fundamentals of Military Management (including the Troop Leading Procedures) TROOP LEADING PROCEDURES)"

General objective of the discipline

Providing primary knowledge and skills of a military management officer capable of professional military management of a unit, timely making informed management decisions in the organisation of combat, including NATO standards.

As a result of studying the discipline, students (trainees) should:

to know:

- basics and principles of the theory of command and control;
- the procedure for planning, organising and controlling the performance of official tasks;
- the content of assessing the situation, developing a plan, making a decision, setting tasks for subordinates, organising management and interaction;
- the content and procedure of comprehensive support measures;
- methodology and procedure for developing textual and graphic combat documents;
- methods of work of command and control bodies in organising and planning combat operations, their features, disadvantages and advantages;
- a methodology for assessing the combat capabilities of a mechanised platoon;
- content of the management activities of the mechanised platoon commander according to Troop Leading Procedures (TLP);
- the procedure for receiving a combat task and communicating a preliminary combat order under TLP procedures;

be able to:

- to carry out measures to organise combat;
- organise comprehensive support measures;
- assess the situation, develop a plan, make decisions, and set tasks for subordinates;
- develop text and graphic combat documents;
- choose the means of implementing the decision-making process;
- to organise the work of the command and control body in planning combat operations using various methods;
- assess the combat capabilities of a mechanised platoon;
- to set combat tasks and check readiness for their execution according to TLP procedures.

Organisational and methodological guidelines

The discipline is designed to develop in servicemen organisational skills in managing units, professional skills in preparing and organising combat (combat use), developing a staff culture, the ability to assess the situation efficiently and quickly, develop proposals and conclusions, and the ability to report them briefly and clearly.

It is mandatory to systematically consolidate the knowledge and skills acquired in the course of studying the discipline during practical and group classes.

In the course of studying the discipline, to cultivate strong will, confidence in conducting measures for the organisation of combat operations (combat use), high military discipline, patriotism, a sense of personal responsibility for the organisation of the ability, including making responsible decisions, perseverance and determination to implement them.

The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in class under the guidance of a scientific and pedagogical employee.

During all forms of training, individual, group and frontal methods of knowledge control and active learning methods are used. The current control is carried out in the form of an oral survey or written express control during the training sessions.

For all types of classes, we use classrooms, computer labs, multimedia equipment, visual aids, and writing materials.

Information and methodological support

1. The general military regulations of the Armed Forces of Ukraine.
2. Fundamentals of Military Management. Part I. The work of the unit commander on the organisation of combat: a textbook / P. Tkachuk, I. Repin, V. Ozharevskyi. Lviv: NASV, 2017.
3. Fundamentals of military management. Part II. Euro-Atlantic procedures and standards of unit management: a textbook / I. Repin, V. Ozharevskyi. Lviv: NASV, 2018.
4. Fundamentals of Military Command Theory and NATO Staff Procedures: a textbook / V. Varakuta, I. Rolin, D. Dyachenko - Kharkiv: VITV NTU "KHPI", 2019.
5. Fundamentals of management according to NATO standards: a textbook / I. Rolin, D. Dyachenko, V. Marushchenko - Kharkiv: VITV NTU "KHPI", 2021.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training classes, control events	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		16	16		Topic№ 1. Fundamentals of command and control and the process of preparing for combat.
1	Lecture	2	2		Classes№ 1. Fundamentals of the theory of troop management. 1. Subject and content of the discipline. 2. Definition, purpose, tasks and functions of force management. 3. Troop management system and its elements.
2	Lecture	2	2		Class№ 2. Laws and Principles of Military Management. 1. The laws of command and control of troops and their essence. 2. Principles of troop management and their content. 3. Requirements for troop management.
3	Seminar	2	2		Class№ 3. The essence and content of troop management. 1. The content of laws on the management of troops. 2. Content and essence of the principles of command and control. 3. Tasks and functions of troop management.
4	Lecture	2	2		Classes№ 4. The content of the commander's management activity. 1. Measures to organise combat operations (combat use). 2. The content of combat mission awareness and time calculation. 3. Content and procedure for issuing preliminary orders. 4. The essence of the situation assessment.
5	Group session	2	2		Classes№ 5. Procedure for the implementation of measures to organise combat operations (combat use).

					<ol style="list-style-type: none"> 1. Content and procedure for assessing the enemy. 2. The content and procedure for evaluating your unit (troops). 3. The content of the neighbourhood assessment.
6	Lecture	2	2		<p>Class№ 6. Decision-making is the basis of force management.</p> <ol style="list-style-type: none"> 1. The decision of the commander (chief), its essence and content. Requirements for the commander's decision. 2. The essence and content of combat planning (combat employment). 3. Reconnaissance by the unit commander.
7	Group session	1	1		<p>Class№ 7. The content of the commander's decision-making work.</p> <ol style="list-style-type: none"> 1. Features of decision-making in combat conditions. Factors influencing decision-making. 2. Methods that facilitate independent combat decision-making.
8	Lecture	2	2		<p>Classes№ 8. The procedure for setting tasks for subordinates. Organisation of interaction and preparation of units for the implementation of tasks.</p> <ol style="list-style-type: none"> 1. The procedure for assigning combat tasks to subordinates. Combat order, combat order, their structure and content. 2. The essence, content, forms, types and procedure for organising interaction. 3. Preparing units for the execution of tasks.
9	Group session	1	1		<p>Classes№ 9. The procedure for setting combat tasks and preparing units for their execution.</p> <ol style="list-style-type: none"> 1. The procedure for drawing up a combat order, its structure and content. 2. Procedure for organising interaction and combat support. 3. Procedure for organising management and communication.
		18	16	2	Topic 2. Combat text and graphic documents.
10	Lecture	2	2		<p>Class№ 1. The procedure for developing textual combat documents.</p> <ol style="list-style-type: none"> 1. Combat documents, their classification and requirements. 2. Requirements for the design of textual combat documents.
11	Practical session	2	2		<p>Class№ 2. The work of a platoon commander in issuing a combat order.</p> <ol style="list-style-type: none"> 1. Collecting and forming the initial data for the preparation of a combat order. 2. Practical execution of a combat order.
12	Lecture	2	2		<p>Class№ 3. The procedure for developing graphic combat documents.</p> <ol style="list-style-type: none"> 1. Features of the design of graphic combat documents. 2. Methods of preparation of graphic planning documents.
13	Practical	5	4	1	Exercise 4. Preparation and execution of graphic combat documents for work.

	session				<ol style="list-style-type: none"> 1. Glue and fold the map. 2. Add the details to the card. <p>Independent work.</p> <ol style="list-style-type: none"> 1. Raising the topographic base of the map. 2. Prepare and design the cover page.
14	Lecture	3	2	1	<p>Session 5. Military symbols.</p> <ol style="list-style-type: none"> 1. Procedure for the construction of military symbols. 2. Detailed requirements for the application of military symbols, technical specification of symbols. <p>Independent work.</p> <ol style="list-style-type: none"> 1. Military symbols for weapons and military equipment. 2. Military symbols for command and control of troops. 3. Military symbols of military formations of branches of the armed forces and services.
15	Practical session	4	4		<p>Session 6. The use of military symbols for combat documents.</p> <ol style="list-style-type: none"> 1. Application of military symbols on graphic combat documents. 2. Marking of troop control measures.
		8	8		<p>Topic № 3. Management activities of a mechanised platoon commander.</p>
16	Lecture	2	2		<p>Class № 1. Combat capabilities of a mechanised platoon.</p> <ol style="list-style-type: none"> 1. The concept of combat capabilities and their components. 2. The concept of firepower. 3. The concept of impact force. 4. The concept of manoeuvrability.
17	Practical session	2	2		<p>Class № 2. Assessment of the combat capabilities of a mechanised platoon.</p> <ol style="list-style-type: none"> 1. Preparation of initial data for calculating the combat capabilities of a mechanised platoon. 2. Calculate the firepower of a mechanised unit.
18	Lecture	2	2		<p>Classes № 3. Types of comprehensive support and their content.</p> <ol style="list-style-type: none"> 1. The concept of comprehensive coverage and its components. 2. General characteristics of medical care. 3. General characteristics of logistics support. 4. Classification of equipment according to NATO standards.
19	Group	2	2		<p>Classes № 4. Organisation of support for combat operations.</p>

	session			<ol style="list-style-type: none"> 1. Organisation of intelligence. 2. Organisation of CBRN protection. 3. Organisation of engineering support. 4. Organisation of tactical camouflage. 5. Organisation of security.
		16	16	See№ 4. The work of a mechanised platoon commander in preparing for combat according to NATO standards.
20	Lecture	2	2	Exercise 1. The content of the management activities of a mechanised platoon commander according to TLP procedures. <ol style="list-style-type: none"> 1. Stages of the battle preparation process. 2. Components of the stages of the battle preparation process.
21	Group session	2	2	Exercise 2. Receiving a combat task and communicating a preliminary combat order according to TLP procedures. <ol style="list-style-type: none"> 1. Receiving a combat task (the first stage of the combat preparation process). 2. Communicating the preliminary combat order (the second stage of the combat preparation process).
22	Lecture	4	4	Class№ 3. The procedure for developing a preliminary battle plan according to the TLP procedure. <ol style="list-style-type: none"> 1. Content and procedure of work at the task analysis stage. 2. Content and procedure of work at the stage of developing action options.
23	Group session	2	2	Session№ 4. Developing a preliminary plan and preparing the unit for relocation according to TLP procedures. <ol style="list-style-type: none"> 1. The content and procedure of the process of comparing and selecting the final option. 2. The content and procedure of work in the course of preparing the unit for relocation.
24	Lecture	2	2	Exercise 5. The procedure for conducting reconnaissance and completing battle planning according to TLP procedures. <ol style="list-style-type: none"> 1. Content and procedure of work during reconnaissance. 2. Content and procedure for completing battle planning.
25	Lecture	2	2	Exercise 6. The procedure for setting combat tasks and checking readiness to perform them according to TLP procedures. <ol style="list-style-type: none"> 1. The procedure for drawing up a combat order, its structure and content. 2. Measures to verify readiness.
26	Group session	2	2	Exercise 7. Commander's work during combat (operations) according to NATO standards. <ol style="list-style-type: none"> 1. Management of a unit during combat (operations).

					2. Fire control of the unit. 3. Analysis of the battle.
27	Final control	2	2		Credit
Total for the discipline		60	58	2	

4.5. MP 1.5 "Management of day-to-day activities of units"

General objective of the discipline

Training of an officer who is able to maintain the unit in constant readiness to perform assigned tasks, organise and conduct combat training in the unit according to training standards, use regulatory documents and organise safe conditions of military service in the unit, organise and conduct company economy.

As a result of studying the discipline, students (trainees) should:

to know:

- the content of measures to maintain the unit in combat readiness;
- the procedure for organising daily activities in the platoon (company);
- the procedure for organising personnel records in the unit;
- the procedure for keeping records of material assets in the unit;
- the procedure for accepting and resigning the position of unit commander;
- basic forms and methods of combat training in the company;
- Methods of conducting classes according to training standards;
- requirements for the safety of military activities during combat training, the use of weapons and military equipment, the performance of economic activities, and compliance with fire and environmental safety;

be able to:

- develop and maintain personal documents on combat readiness;
- organise and conduct combat training in the unit, and keep records of it;
- conduct combat training classes in accordance with training standards;
- Develop planning and reporting documents for combat training;
- organise and support the day-to-day activities of the unit;
- organise and manage company housekeeping;
- work with restricted documents in a variety of environments;
- Organise and keep records of material assets in the unit;

document the acceptance and surrender of the position of unit commander;
organise security measures in the unit during combat training, use of weapons and military equipment, household work, fire and environmental safety.

Organisational and methodological guidelines

The subject matter of the discipline is the daily activities of the unit and the practice of using military units.

Group and practical exercises should be conducted to acquire practical skills in managing military units to ensure the fulfilment of daily tasks, maintaining units in constant readiness to perform assigned tasks, using examples from the experience of the Russian-Ukrainian war. In practical classes, it is advisable to practice using tasks that require logical thinking and contribute to the development of cadets' (students') creative abilities.

Classes are held in specialised classrooms, training complexes, training grounds and campuses, training fields, which must be equipped with the necessary stands, posters, simulators, computer equipment, etc. The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in the classroom under the guidance of a scientific and pedagogical employee.

During all forms of training, individual, group and frontal methods of knowledge control and active learning methods are used. The current control is carried out in the form of an oral survey or written express control during the training sessions.

Information and methodological support

1. Law of Ukraine "On Military Duty and Military Service" of 25.03.1992 No. 2232-XII (as amended).
2. Law of Ukraine "On State Secrets" of 21.01.94 No. 3855-XII (as amended).
3. Law of Ukraine "On the Armed Forces of Ukraine" of 06.12.1991 No. 1934-XII (as amended).
4. Law of Ukraine "On mobilisation training and mobilisation" of . 21.10.1993 No. 3543-XII (as amended).
5. Law of Ukraine "On Defence of Ukraine" of 06.12.1991 No. 1932-XII (as amended).
6. Statutes of the Armed Forces of Ukraine.

Title of topics and distribution of study time by type of class

№ s/n	Types of training classes, control events	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		2	2		Topic№ 1. Organisation of security of military service in everyday life
1	Lecture	2	2		Class 1. Theoretical foundations of military security 1. Legal basis for the security of military activities. 2. Safety in the operation and maintenance of weapons and military equipment. 3. Investigation of an accident in a military unit.
		2	2		The topic is№ 2. Health and safety and the basics of sessional health and safety
2	Lecture	2	2		Class№ 1. Classification of hazards by source 1. Natural, social, and man-made hazards and their impact factors. 2. Organisation of labour protection in a military unit. 3. Labour protection instructions and their purpose.
		2	2		Theme 3. Fundamentals of military administrative activity
3	Lecture	2	2		Class 1. Legislation of Ukraine on protection of state secrets 1. Information with restricted access. State secrets. 2. General provisions on the organisation of classified work in a military unit (subdivision). 3. General Provisions on the Organisation of Official Records Management...
		2	2		Topic 4. Service activities of the unit commander
4	Lecture	2	2		Class 1. Activities of the unit commander in the field of human resources management 1. Organisation of personnel records in the unit... 2. Procedure for appointment and dismissal of personnel from the positions of non-commissioned officers of the unit.

					3. The procedure for certification of subordinate personnel by the unit commander.
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		4	4		Topic 5. Organisation of service of troops in the unit
5	Lecture	2	2		Class 1. Fundamentals of organising the service of troops in a unit 1. Content, essence and tasks of military service. 2. Organisation of the daily watch service in the unit. 3. Organisation of the guard service in the unit
6	Group session	2	2		Class 2. Organisation of accounting and storage of weapons and ammunition 1. Requirements of the guiding documents on the accounting and storage of weapons and ammunition in the unit (guard). 2. Responsibilities of officials to ensure the accounting and storage of weapons and ammunition in the unit.
		8	8		Topic 6. Basics of organising combat training in a unit
7	Lecture	2	2		Class 1. Fundamentals of combat training organisation 1. Purpose, tasks and content of training of the Armed Forces of Ukraine. 2. General provisions for the organisation of combat training. 3. Requirements of regulatory documents on combat training planning.
8	Group session	2	2		Classes № 2. Organisation of individual and collective training 1. Organisation of individual training. The system of individual training. 2. Forms of collective training. 3. Platoon combat training logbook...
9	Practical session	2	2		Session 3. Planning combat training in a unit 1. Develop and draw up a training schedule for the unit (separate platoon). 2. Drawing up a session plan (outline, operational map).
10	Seminar	2	2		Class 4. High-quality organisation of combat training and service of troops in a unit is the basis for maintaining combat readiness 1. Discuss the activities of the unit commander in organising the service of troops in the unit. 2. Discuss the activities of the unit commander in organising combat training in the unit.
		2	2		Topic № 7. Fundamentals of combat and mobilisation readiness

11	Group session	2	2	Classes№ 1. Military mobilisation and combat readiness of units 1. Fundamentals of military mobilisation. 2. Combat readiness of units. 3. Manning units with mobilisation resources.
		6	6	Topic 8. Organisation and management of military economy
12	Lecture	2	2	Class 1. Organisation and management of company economy 1. Fundamentals of company management. 2. The work of the commander of a unit for military economy.
13	Practical session	2	2	Classes№ 2. Receiving and handing over cases and positions by the unit commander 1. General regulations on the reception and delivery of cases and the position of platoon leader. 2. Preparation of documents for acceptance of cases and the position of platoon commander.
14	Practical session	2	2	Session 3. Accounting for material assets in a subdivision 1. Preparation of accounting documents for the receipt and delivery of material assets of the unit. 2. Prepare documents for writing off material assets.
15	Final control	2	2	Credit
Total for the discipline		30	30	

Titles of topics and distribution of study time by type of study session

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
1	2	3	4	5	6
Topic 1: Nuclear, chemical, biological and incendiary weapons. Weapons based on new physical principles.					
1.	Lecture	3	2		Class 1: General characteristics of weapons of mass destruction and high-risk facilities. 1. Subject of the discipline, its scientific basis. The role and place of the discipline in the training of cadets, the procedure for passing the discipline and reporting. 2. General characteristics of weapons of mass destruction and incendiary weapons. 3. General characteristics of high-risk facilities
				1	Independent work. 1. Physical and technical foundations of nuclear weapons. 2. Classification of nuclear charges. 3. Types of nuclear explosions and their characteristics
2.	Group session	3	2		Class 2: Chemical, biological, radiological and nuclear weapons. Principles of destructive action and basics of protection against them. 1. Classification of chemical warfare agents, their damaging effects and the basics of personnel protection. 2. Biological agents, their classification and protection of personnel. 3. Nuclear explosion hazards and protection against them
				1	Independent work 1. Ways of getting poisonous substances and biological agents into the body. 2. Characteristics of environmental situations. 3. Subject, object and structure of military ecology
3.	Group session	3	2		Class 3. Incendiary weapons. 1. General characteristics of incendiary weapons and current views on their use.

1	2	3	4	5	6
					<p>2. The damaging factors of incendiary weapons.</p> <p>3. Classification of incendiary substances and mixtures.</p> <p>4. Protection of personnel, weapons, military equipment and fortifications from the effects of incendiary weapons</p>
				1	<p>Independent work</p> <p>1. The procedure for performing and evaluating servicemen in the performance of standards: NRHBZ-1, NRHBZ-4, NRHBZ-6, NRHBZ-7, NRHBZ-8, NRHBZ-16.</p> <p>2. Actions of personnel upon warning signals</p>
4.	Practical session	3	2		<p>Exercise 4. Actions of the personnel of the department in preparation for performing tasks in the conditions of a chemical, biological, radiological and nuclear incident.</p> <p>1. Actions on CBR alert signals. Compliance with N-RHBZ-6, N-RHBZ-7, N-RHBZ-8 standards.</p> <p>2. Preparation for overcoming CBR contamination zones. Compliance with N-RCS-4 standards.</p> <p>3. Actions of unit personnel after overcoming and leaving the contamination zone. Compliance with N-RCS-13 (N-RCS-14) and N-RCS-16 standards</p>
				1	<p>Independent work</p> <p>1. Methods of protection against inflammable substances.</p> <p>2. Actions of personnel when the enemy uses incendiary substances</p>
5.	Practical session	2	2	-	<p>Exercise 5. Actions of a unit in conditions of incendiary weapons use.</p> <p>1. Preparing the unit to perform tasks in conditions of enemy use of incendiary weapons. Fulfilment of the standard N-RCW-4a.</p> <p>2. Procedure for actions in areas where the enemy uses incendiary weapons (overcoming the fire assault strip as part of a platoon). Fulfilment of norms N-RHBZ-4b, N-RHBZ-16</p>
Total for the topic		14	10	4	
Topic 2. Basics of radiation, chemical and biological protection of units					
6.	Lecture	3	2		<p>Class 1: Purpose, tasks and measures of radiation, chemical and biological protection of units.</p> <p>1. Content of tasks and measures of radiation, chemical, biological protection of units, forces and means for their implementation.</p> <p>2. Work of commanders and staffs in organising radiation, chemical and biological protection</p>
				1	<p>Independent work.</p> <p>1. Procedure for organising radiation, chemical and biological protection of units.</p> <p>2. Procedure for radiation, chemical and biological protection of units.</p>

1	2	3	4	5	6
7.	Group session	3	2		<p>Class 2. Radiation, chemical, biological situation, its impact on military operations.</p> <p>1. Peculiarities of radiation and chemical situation as a result of destruction (accidents) of radiation and chemically hazardous facilities.</p> <p>2. Organisation and conduct of radiation, chemical and biological intelligence in the unit.</p> <p>3. Purpose, general structure, tactical and technical characteristics of radiation, chemical reconnaissance and control devices</p>
				1	<p>Independent work.</p> <p>1. The procedure for detecting and assessing the radiation, chemical, and biological situation.</p> <p>2. Sequence of actions in preparation for operation and checking the performance of radiation detection devices</p>
Total for the topic		6	4	2	
Topic 3: Fundamentals of environmental safety of troops					
8.	Group session	3	2		<p>Class 1: Fundamentals of general ecology.</p> <p>1. Structure of ecological systems. Classification of environmental factors, their impact on the environment. Basic concepts in the field of environmental protection.</p> <p>2. The system of environmental safety of troops. Fundamentals of environmental safety. Levels of environmental safety of the environment. Characteristics of the tasks of environmental safety of troops</p>
				1	<p>Independent work.</p> <p>1. Environmental safety of troops.</p> <p>2. Principles of ensuring environmental safety in the Armed Forces of Ukraine</p>
Total for the topic		3	2	1	
Topic 4. Basics of radiation, chemical and biological protection of units					
9.	Practical session	3	2		<p>Session 1: Use of portable technical intelligence equipment.</p> <p>1. Work with chemical intelligence and control devices.</p> <p>2. Work with radiation detection and monitoring devices</p>
				1	<p>Independent work.</p> <p>1. Sequence of actions in preparation for work and checking the operability of radiation detection devices.</p> <p>2. Sequence of actions in preparing for operation and checking the performance of chemical reconnaissance devices</p>
10.	Practical session	2	2		<p>Exercise 2: Actions of a unit when overcoming a contaminated area.</p> <p>1. Prepare the unit to overcome the contaminated area.</p> <p>2. The unit's actions in the contaminated area.</p> <p>3. Actions of the unit after leaving the contaminated area</p>

1	2	3	4	5	6
Total for the topic		5	4	1	
Topic 5. Fundamentals of environmental safety of troops					
11.	Group session	3	2		Class 1: Environmental protection in the Armed Forces of Ukraine. 1. The impact of the Armed Forces of Ukraine on the environment. Characteristics of military-technogenic factors of impact on the environment. 2. Protection of atmospheric air in the military. 3. Protection and rational use of land and water resources in the armed forces. 4. Protection of flora and fauna in the armed forces
				1	Independent work. 1. Characteristics of military-technogenic factors of environmental impact. 2. Protection and ways to clean up the environment
Total for the topic		3	2	1	
Topic 6. Maintaining troop survivability in conditions of radiation, chemical and biological contamination					
12.	Group session	3	2		Class 1: Use of personal protective equipment. 1. Purpose, classification of personal protective equipment and its structure. 2. Rules for the use of personal respiratory and skin protection equipment 3. Procedure for checking the quality of fitting of personal respiratory protection equipment
				1	Independent work. 1. Characteristics of personal respiratory and skin protection equipment. 2. Fitting and use of personal protective equipment in the "marching", "ready" and "combat" modes
13.	Group session	3	2		Class 2. Collective remedies. 1. Purpose and general structure of collective remedies. 2. Procedure for using filter and ventilation units and units. 3. Use of collective protection means for combat vehicles
				1	Independent work. 1. Air purification equipment for armoured weapons and equipment facilities. 2. Air purification equipment for military vehicles
14.	Practical session	3	2		Class 3: Practical use of personal protective equipment. 1. Procedure for implementation and assessment of the N-RCS-1 standard. 2. Procedure for implementation and assessment of the standard N-RHBZ-4a, N-RHBZ-4b. 3. Procedure for implementation and evaluation of the standard N-RHBZ-6, N-RHBZ-7, N-RHBZ-8
				1	Independent work.

1	2	3	4	5	6
					1. Training to meet CBRN protection standards
15.	Practical session	2	2		Exercise 4. Warning troops about the CBRN situation. 1. Radiation, chemical, biological contamination warning signals. 2. The procedure for personnel to act on warning signals. 3. Procedure for personnel to act when using collective defence means
Total for the topic		11	8	3	
Topic 7. Fundamentals of environmental safety of troops					
16.	Group session	3	2		Class 1: Fundamentals of environmental legislation. 1. Regulatory legal acts of the current legislation of Ukraine concerning environmental protection in the Armed Forces of Ukraine. 2. The main aspects of international environmental law in military activities. 3. Liability of officials for violations of environmental legislation
				1	Independent work. 1. The main laws and guidelines for environmental protection. 2. Types of liability for environmental offences
Total for the topic		3	2	1	
Topic 8: Elimination of the consequences of radiation, chemical and biological contamination					
17.	Group session	3	2		Class 1: The basics of special processing. 1. The concept of special processing. Partial and complete special processing. 2. Organisation and implementation of special processing in the unit 3. Decontamination, decontamination and disinfection solutions and formulations, including household chemicals
				1	Independent work. 1. General information about special processing. 2. Formulations and solutions for decontamination, decontamination, disinfection.
18.	Group session	3	2		Class 2: Theoretical foundations of aerosols. 1. Classification of aerosol curtains. Aerosol-forming compounds, their classification and composition. 2. Technical means of aerosol camouflage for general use and their characteristics. 3. The procedure for selecting the method of installing aerosol curtains. 4. Experience in the use of smoke weapons during combat operations
				1	Independent work. 1. Purpose, general arrangement and use of smoke and simulation equipment
19.	Practical session	3	2		Class 3. Means of special treatment in subdivisions.

1	2	3	4	5	6
					1. Individual means of special treatment. 2. Weapons and uniform decontamination kit. 3. Purpose and structure of special processing kits and their preparation for use with various processing methods
				1	Independent work. 1. The sequence of actions when working with an individual decontamination kit.
20.	Practical session	4	2		Class 4. Application of technical means of setting up aerosol curtains. 1. The procedure for using hand-held smoke grenades. 2. The procedure for using smoke bombs
				2	Independent work. 1. The purpose, tasks and measures of radiation, chemical and biological protection of troops, their content, forces and means for their implementation. 2. Fundamentals of environmental safety of troops
Total for the topic		13	8	5	
Control measures		2	2		Credit
Total for the educational component		60	42	18	

4.6. MP 1.6 "Radiation, chemical, biological protection of units (including ecology)"

General objective of the discipline

Training of a serviceman capable of implementing radiation, chemical, biological (RBC) protection measures aimed at protecting units from the use of weapons of mass destruction and the consequences of the destruction of high-risk objects in various conditions, and developing their psychological stability when acting in difficult conditions of modern combat.

As a result of studying the discipline, students (trainees) should:

to know:

- basic information about weapons of mass destruction;
- methods and ways of determining CBRN contamination;
- maximum permissible levels of ionising radiation, radiation safety standards;
- classification, pathogenic properties of biological agents, and methods of their combat use;
- the procedure for using protective equipment for its intended purpose, peculiarities of preparation and use of individual and collective protective equipment during the performance of tasks, depending on the combat situation;
- service equipment of the CBRN defence forces;

be able to:

- organise measures to protect against weapons of mass destruction;
- use CBRN contamination detection equipment and personal protective equipment against weapons of mass destruction;
- determine the maximum permissible levels of ionising radiation in accordance with radiation safety standards;
- operate in conditions of biological contamination;
- use the service equipment of the CBRN troops.

Organisational and methodological guidelines

The study of the discipline is aimed at mastering the basic provisions of CBRN protection and acquiring skills in the use of CBRN protection means.

To achieve the overall learning objective, the following forms of learning are provided:

- frontal form of training, when all cadets (students) perform the same task at the same time under the supervision of a teacher;
- group form of training, when cadets (students) are combined into groups (departments) depending on the staffing structure of the unit, which work in parallel;
- individual form of training, when cadets (students) complete tasks sequentially, one by one.

Depending on the level of knowledge or skill required, the following methods are used:
explanatory and illustrative method, in which the teacher presents the ready-made information by various means, and the cadets (students) perceive, understand and fix it in their memory;
a reproductive method, the main feature of which is the proof and repetition of a method of activity, to be used in practical classes.

To develop the creative abilities of cadets (students), problem-based learning methods are used during practical classes.

The following control methods are used in teaching the discipline:

entrance control;

current control;

self-control;

final control.

The number of control measures, forms of their implementation, frequency are communicated to cadets (students) at the beginning of the discipline.

Classes are held in specialised classrooms, training complexes, training grounds and campuses, training fields, which must be equipped with the necessary stands, posters, simulators, computer equipment, etc. The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in the classroom under the guidance of a scientific and pedagogical employee.

Information and methodological support

1. Doctrine on Chemical, Biological, Radiological and Nuclear Protection of Troops (Forces): Order of the General Staff of the Armed Forces of Ukraine of 19.10.2020 No. 346.

2. Military standard 01.107.004-2022 (01) "Environmental safety management system of troops (forces) during military activities". Enacted by the Order of the Head of the Department of Standardisation, Codification and Cataloguing No. 30 15.07.2022.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		4	4	-	Topic 1: Nuclear, chemical, biological and incendiary weapons. Weapons based on new physical principles.
1	Lecture	2	2		Class 1. General characteristics of weapons of mass destruction and high-risk facilities. 1: The role and place of discipline in the training of military personnel, the procedure for passing discipline and reporting. 2.. General characteristics of nuclear weapons. Damaging factors of a nuclear explosion and protection against them. 3. General characteristics of chemical weapons. Protection of units from the effects of chemical weapons 4. General characteristics of biological weapons. Protection of units from the effects of biological weapons.
2	Group session	2	2		Class 2. Incendiary weapons. 1. General characteristics of incendiary weapons and current views on their use. 2. The damaging factors of incendiary weapons. 3. Classification of incendiary substances and mixtures. 4. Protection of personnel, weapons, military equipment and fortifications from the effects of incendiary weapons.

		9	8	1	Topic 2. Fundamentals of radiation, chemical and biological protection of units
3	Lecture	3	2	1	<p>Class 1. Purpose, tasks and measures of radiation, chemical and biological protection of units.</p> <p>1. Content of tasks and measures of radiation, chemical, biological protection of units, forces and means for their implementation.</p> <p>2. The work of commanders and staffs in organising radiation, chemical and biological protection.</p> <p>3. Organisation and conduct of radiation, chemical and biological intelligence in the unit.</p> <p>4. Conventional symbols used for graphical representation of the CBR situation and actions of CBR protection units.</p> <p>Independent work. The purpose, tasks and measures of radiation, chemical and biological protection of units.</p> <p>1. Procedure for organising radiation, chemical and biological protection of units.</p> <p>2. Procedure for radiation, chemical and biological protection of units.</p> <p>3. Conventional symbols used for graphical representation of the CBR situation and actions of CBR protection units.</p>
4	Practical session	2	2		<p>Session 2: Use of portable technical intelligence equipment.</p> <p>1. Work with chemical intelligence and control devices.</p> <p>2. Work with radiation detection and monitoring devices.</p> <p>Independent work. Use of portable technical means of reconnaissance.</p> <p>1. Sequence of actions in preparation for work and checking the operability of radiation detection devices.</p> <p>2. Sequence of actions in preparation for work and checking the performance of chemical reconnaissance devices.</p>
5	Practical session	2	2		<p>Class 3. Practical use of personal protective equipment. Basics of special treatment.</p> <p>1. Radiation, chemical, biological contamination warning signals.</p> <p>2. Procedure for the implementation and evaluation of standard No. 1.</p> <p>3. Procedure for fulfilling and evaluating the standard No. 4a; 4b.</p> <p>4. Procedure for the implementation and evaluation of the standard No. 6; 7; 8.</p> <p>5. Individual special treatment agents and the procedure for their use</p> <p>6. Purpose and structure of special processing kits and their preparation for use in various processing methods.</p>
6	Practical session	2	2		<p>Class 4. Theoretical basis of aerosols application. Application of technical means of setting up aerosol curtains.</p> <p>1. General principles of aerosol camouflage.</p> <p>2. Technical means of general-purpose aerosol camouflage and their characteristics.</p> <p>3. The procedure for using hand-held smoke grenades.</p> <p>4. The procedure for using smoke bombs.</p>
7	Final control	2	2		Credit
Total for the discipline		15	14	1	

4.7. MP 1.7 "Military topography"

General objective of the discipline

The purpose of teaching the discipline is to teach military personnel to use a topographic map as the main measuring and graphic document about the terrain, to draw up terrain diagrams, to navigate the terrain, to assess its tactical properties, to move by azimuths and by topographic map.

As a result of studying the discipline, students (trainees) should:

to know:

tactical properties of the terrain;

layout and nomenclature of topographic maps;

symbols for topographic maps;

methodology for determining the characteristics of the terrain;

methods for determining geographical, rectangular and polar coordinates of terrain objects;

methods for determining coordinates on topographic maps in the World Geodetic System WGS-84, Mercator Cartographic Projection (UTM), and the MGRS targeting system;

rules for determining directional angles and magnetic azimuths;

the procedure for measuring distances and areas on a topographic map;

the procedure for working with photographic documents;

the procedure for navigating unfamiliar terrain with and without a map;

the procedure for using navigation devices;

be able to:

assess the tactical properties of the terrain;

determine the nomenclature of adjacent sheets of topographic maps;

Read topographic maps;

Determine the mutual visibility between objects and the steepness of slopes;

build vertical terrain profiles;

determine the geographical, rectangular, and polar coordinates of terrain objects;

determine the coordinates on topographic maps in the WGS-84 global geodetic system, the Mercator Cartographic Projection (UTM), and the MGRS targeting system;
measure distances, areas and angles on a topographic map;
perform measurements on a map, aerial image and on the ground;
navigate unfamiliar terrain with and without a map;
plan and move along a specific route.

Organisational and methodological guidelines

The methodological basis for teaching the discipline is a mandatory and systematic reference to the experience of the Russian-Ukrainian war, taking into account the content of general military, tactical and military-specialist disciplines that cadets (students) will study; giving preference to Practical session.

It is mandatory to systematically consolidate the knowledge and skills acquired in the course of studying the discipline during practical (field) classes by performing exercises to determine your location, map orientation, orientation on the ground using a map, measuring angles and distances on the map and terrain, etc.

The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in class under the guidance of a scientific and pedagogical employee.

To achieve the overall learning objective, the following forms of learning are provided:

- frontal form of training, when all cadets (students) perform the same task at the same time under the supervision of a teacher;
- group form of training, when cadets (students) are combined into groups (departments) depending on the staffing structure of the unit, which work in parallel;
- individual form of training, when cadets (students) complete tasks sequentially, one by one.

Depending on the level of knowledge or skill required, the following methods are used:

- explanatory and illustrative method, in which the teacher presents the ready-made information by various means, and the cadets (students) perceive, understand and fix it in their memory;
- a reproductive method, the main feature of which is the proof and repetition of a method of activity, to be used in practical classes.

To develop the creative abilities of cadets (students), problem-based learning methods are used during practical classes.

Current control is carried out in the form of an oral survey or written express control during training sessions.

Information and methodological support

1. Shmal S. Military topography. Kyiv: Editorial and Publishing Centre of the Armed Forces of Ukraine, 2018.
2. Instruction on the use of topographic, special, digital (electronic) maps in the Armed Forces of Ukraine. approved by the Order of the General Staff of the Armed Forces of Ukraine 31.12.2021 No. 422.
3. Methodological guide on the use of NATO topographic maps in the Armed Forces of Ukraine. Kyiv, 2017.
4. An album of samples of topographic, special maps and photographic documents about the area produced by the topographic service of the Armed Forces of Ukraine. Kyiv: Editorial and Publishing Centre of the Armed Forces of Ukraine, 2019.
5. Instructions for the use of the World Geodetic System WGS-84. Order of the Ministry of Defence of Ukraine 18.09.2023 No. 563.
39 c.
6. Combat Statute of the Land Forces "Geospatial Support of the Land Forces of the Armed Forces of Ukraine" BP 3-30(11).01, Kyiv, 2020.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		18	10	8	Topic 1 Topographic maps.
1	Group session	4	2	2	Class 2 Topographic maps of the Armed Forces of Ukraine. 1. Purpose, scale and characteristics of topographic maps. 2. The essence of topographic mapping and nomenclature. 3. Summary tables of topographic maps. 4. Prepare a topographic map for work. Independent work: Topographic maps of the Armed Forces of Ukraine. 1. Practice identifying adjacent sheets of topographic maps at different scales.
2	Group session	4	2	2	Activity 4. Study the terrain on a map. 1. The essence of the relief image by horizontal lines. 2. The height of the relief section. 3. Determine the elevation and elevation of points on the map. 4. 4. Determine the steepness of slopes from the map. Independent work: Study the terrain on a map. 1. Perform individual tasks to build a vertical profile of the terrain.

1	2	3	4	5	6
3	Group session	3	2	1	<p>Class 7. The system of geographical coordinates.</p> <p>1. The concept of a geographic coordinate system. 2. Determine geographic coordinates from a topographic map. 3. Plotting targets on a map using known geographic coordinates. Independent work: Geographic coordinate system. 1. Determine the location of the object (target) in the geographic coordinate system.</p>
4	Group session	3	2	1	<p>Class 8. The system of flat rectangular coordinates.</p> <p>1. The essence of the plane rectangular coordinate system. 2. Determining rectangular coordinates from a topographic map. Additional coordinate grid at the junction of neighbouring zones. 3. Place targets on the map using rectangular coordinates. Independent work: Flat rectangular coordinate system. 1. Determine the location of an object (target) in a flat rectangular coordinate system. 2. Determine the location of the object (target) in the polar and bipolar coordinate systems.</p>
5	Group session	4	2	2	<p>Class 9. Azimuths and directional angles.</p> <p>1. Directional angle, true and magnetic azimuths. The procedure for determining the directional angles from the map. 2. Direction correction. Switch from directional angles to azimuths and vice versa. Independent work: Azimuths and directional angles. 1. Determination of directional angles and azimuths. Calculate the directional correction. 2. Training in the transition from directional angles to azimuths and vice versa.</p>
		7	6	1	<p>Topic 2 Terrain as an element of the combat environment.</p>
6	Group session	2	2		<p>Class 2. Working with aerial images.</p> <p>1. Prepare the aerial image for work. 2. Transfer targets from the aerial image to the map. 3. Determine the rectangular coordinates of targets from an aerial image.</p>

1	2	3	4	5	6
7	Practical session	5	4/4	1	Activity 3: Measuring and orienteering without and with a map. 1. Orientation on the ground without a map. 2. Measure angles and determine distances on the ground. 3. Orientation on the map. Determining the point of standing. Independent work: Drawing a map of the area. 1. Conventional symbols used on terrain diagrams. 2. Drawing up a map of the area.
		3	2	1	Topographic maps of NATO countries.
8	Practical session	3	2	1	Exercise 2: Locating objects on NATO maps. 1. Determine the geographical coordinates. 2. Determine the rectangular coordinates. 3. Features of using the Military Grid Reference System. Independent work: Determining the position of objects on NATO maps. 1. Determining the position of objects using the Military Grid Reference System with varying accuracy.
9	Final control	2	2		Credit
Total for the discipline		30	20	10	

4.8. MP 1.8 "Engineering training"

General objective of the discipline

Training of a serviceman who is able to provide comprehensive engineering support to the unit, to practically perform the tasks of engineering support for the mobility of his troops (forces), engineering measures to restrict the mobility of enemy forces and means, engineering measures to increase the survivability and safety of the use of troops (forces) and objects, general engineering support for troops (forces).

As a result of studying the discipline, students (trainees) should:

to know:

demonstrate knowledge of the nature of engineering support tasks;

processes of comprehensive support of the unit (by types, branches of the Armed Forces of Ukraine, other military formations established in accordance with the laws of Ukraine) during combat use and daily activities;

be able to:

to organise the execution of tasks on engineering support for the mobility of their troops (forces);

to carry out engineering measures to restrict the mobility of enemy forces and assets;

carry out engineering measures to improve the survivability and safety of troops (forces) and facilities;

organise the performance of general engineering support tasks for troops (forces).

Organisational and methodological guidelines

The subject of the discipline is a set of measures for the engineering training of units in order to timely and covertly move them out, deploy them, conduct manoeuvres, create the necessary conditions for the successful completion of assigned tasks, increase the level of protection of units and objects from enemy weapons, inflict losses on the enemy and complicate his actions.

Lecture classes are held to study the theoretical provisions of the use of units in the main types of combat (tactical actions), and they include separate questions on the specifics of unit actions and decision-making procedures by the unit commander according to NATO standards (TLP).

Group training sessions are conducted to teach personnel techniques and methods of performing engineering support tasks in various combat conditions, taking into account the experience of the war with the Russian Federation.

Practical classes are conducted to consolidate and deepen theoretical knowledge, as well as to instil in students the skills of using theoretical provisions in solving specific practical problems. During practical classes, it is advisable to practice performing tasks that require logical thinking and promote the development of students' creative abilities.

Information and methodological support

1. Temporary Guidelines on Engineering Support of the Armed Forces of Ukraine - Kyiv: General Staff of the Armed Forces of Ukraine, 2019.
2. SBP 3-(01,02,04).58(59) Combat Statute of the Mechanised and Tank Troops of the Land Forces of the Armed Forces of Ukraine, Part III (platoon, section, tank): approved by the Order of the Commander of the Land Forces of the Armed Forces of Ukraine No. 238 25.05.2016 (as amended in 2017-2023).
3. Combat Statute of the Artillery of the Armed Forces of Ukraine, Part II (Division, Battery, Platoon, Gun) / Kyiv: Varta, 2017.
4. On Approval of the Guidelines on Subversive (Explosive) Activities in the Armed Forces of Ukraine. Order of the General Staff of the Armed Forces of Ukraine No. 1 of 04 January 2017 - Kyiv, 2017.
5. On approval of the guidelines for the use of engineered ammunition by units of the Armed Forces of Ukraine. Order of the General Staff of the Armed Forces of Ukraine of 04 January 2017 No. 2 - Kyiv, 2017.

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		6	4	2	Topic 1: Fundamentals of engineering support of combat operations.
1	Lecture	3	2	1	<p>Class 1: Engineer troops and tasks of engineering support of combat.</p> <p>1. The main tasks of engineering support (engineering support for the mobility of own troops (forces); engineering measures to limit the mobility of enemy forces and assets; engineering measures to increase the survivability and safety of troops (forces) and objects; general engineering support for troops (forces).</p> <p>2. Organisational and staffing structure and capabilities of an engineer platoon of a mechanised (tank) battalion, an engineering support group of a mechanised (tank) brigade.</p> <p>Independent work</p> <p>1. Sequence and scope of engineering equipment in the area of concentration of the mechanised, tank (artillery) platoon.</p> <p>2. Sequence and scope of checkpoint engineering equipment.</p>
2	Group session	3	2	1	<p>Session 2: Engineering reconnaissance of the enemy and terrain.</p> <p>1. Purpose, tasks, bodies of engineering intelligence and methods of its conduct.</p> <p>2. The work of the unit commander in organising engineering reconnaissance of the enemy and the terrain.</p> <p>3. The procedure for conducting a search (reconnaissance) of the area based on the experience of the war with the Russian Federation.</p> <p>Independent work</p> <p>1. Characteristic demasking features of minefields.</p>

					2. Composition, equipment and tasks of the emergency demining group.
		6	4	2	Topic 2. Fortification of troop positions, construction of protective structures and engineering camouflage measures.
3	Group session	3	2	1	Session 1: Fortification equipment of troop positions. 1. General requirements for the fortification of troop positions. 2. Arrangement of fortifications for firing at the positions of mechanised and tank units. 3. Arrangement of fortifications to protect personnel. Independent work 1. Procedure for equipping single trenches for firing from a rifle (machine gun), trenches for tanks, armoured personnel carriers, armoured personnel carriers, cannon. Procedure for equipping anti-fragmentation shelters, blocked gaps, and dugouts. 2. Purpose, specifications of the main types of earthmoving equipment (PZM-2, EOY-4421, MDK-3).
4	Group session	3	2	1	Exercise 2: Conducting engineering security measures for the use of troops and facilities to camouflage troops and facilities, simulate their actions. 1. General provisions on camouflage. 2. Methods of camouflage of personnel and equipment. 3. Disguising fortifications and objects based on the experience of the war with the Russian Federation. Independent work 1. Purpose, technical characteristics and composition of sets of service engineering camouflage means. 2. Purpose, technical characteristics, composition of personnel sets of anti-radar camouflage and concealment equipment.
		18	12	6	Topic 3. Blasting operations.

5	Group session	3	2	1	<p>Class 1: Destruction, basics of the fire method of detonating explosive charges. Basics of the electric method of detonating explosive charges.</p> <ol style="list-style-type: none"> 1. Classification of explosives. 2. Purpose, technical characteristics and structure of fire detonation devices. 3. Purpose, technical characteristics and design of electrical detonation devices. 4. Purpose, technical characteristics of sapper wires and test equipment. <p>Independent work</p> <ol style="list-style-type: none"> 1. Purpose and composition of the kit for preparation and conduct of blasting operations in the field. 2. The Criminal Code of Ukraine on violation of the established rules for handling explosives and means of detonation. 3. General requirements for safety measures during blasting operations.
6	Group session	3	2	1	<p>Class 2: Anti-tank mines.</p> <ol style="list-style-type: none"> 1. Purpose and classification of anti-tank mines. 2. General design, technical characteristics, kit composition, procedure for installation and neutralisation (destruction) of TM-62 series anti-tank anti-track mines. 3. Foreign-made anti-tank mines used by the Armed Forces of Ukraine. <p>Independent work</p> <ol style="list-style-type: none"> 1. Purpose, technical characteristics, design, principle of operation, procedure for neutralisation (destruction) of MVCH-62 fuzes. 2. Purpose, technical characteristics, design, principle of operation, procedure for neutralisation (destruction) of MMS-62 and MMS-62M fuzes.
7	Group session	4	2	2	<p>Session 3: Anti-personnel mines. Means and main types of mines that can be laid remotely.</p> <ol style="list-style-type: none"> 1. Purpose and classification of anti-personnel mines used in the war with the Russian Federation. 2. General design, technical characteristics, principle of operation, procedure for laying and neutralising (destroying) anti-personnel mines. 3. Foreign-made anti-personnel mines used by the Armed Forces of Ukraine 4. Purpose, technical characteristics, design, principle of operation and procedure for defusing mines laid by remote mining systems. <p>Independent work</p> <ol style="list-style-type: none"> 1. Methods of fixing minefields. 2. Fill in the minefield fixation card.

8	Practical session	6	4	2	<p>Exercise 4. Making passages in minefields by explosive means.</p> <p>1. Overcoming minefield obstacles by non-standard demining teams (demining).</p> <p>2. The procedure for manufacturing ignition tubes.</p> <p>3. The procedure for detonating explosive charges by fire.</p> <p>Independent work</p> <p>1. Procedure for calculating the weight of explosives and their placement for making a passage in anti-tank non-explosive barriers.</p> <p>2. Procedure for calculating the weight of explosives and their placement for making a passage in anti-personnel non-explosive barriers.</p>
9	Final control	2	2		Credit
Total for the discipline		30	20	10	

4.9. MP 1.9 "Organisation of military communications"

General objective of the discipline

Training of a serviceman who knows the basics of unit management, the procedure for preparing and conducting modern combined arms combat using standard means of communication during the performance of service and combat missions in peacetime and wartime and is able to apply the acquired knowledge in practice.

As a result of studying the discipline, students should:

to know:

the procedure for using the latest means of communication;

tactical and technical characteristics of the main types of communications equipment;

the procedure for creating a unit management system in a modern combined arms battle, the principles of using communication means in the main types of combat, taking into account the use of electronic warfare by the enemy;

organising the management of a subordinate unit in preparation for and during a general combat using regular means of communication;

be able to:

organise communication with subordinate and interacting units in the main types of combat;

to carry out radio communications in radio networks and radio directions, to conduct official negotiations by means of communication in conditions of interference, to meet the requirements of radio masking, covert command and control of troops and ensure the security of communications;

Practical skills in working with standard and modern means of communication of the unit;

correctly apply the documents of covert (hidden) management of the unit.

Organisational and methodological guidelines

The subject of the discipline is the theory and practice of organising military communications to control a unit during modern combined arms combat.

Group and practical classes should be conducted to acquire practical skills in organising military communications with the use of modern means of communication, using examples from the experience of the Russian-Ukrainian war.

Classes are held in specialised classrooms, training complexes, training grounds and campuses, training fields, which must be equipped with the necessary stands, posters, simulators, computer equipment, etc. The educational material provided for studying during independent work is submitted for final control together with the educational material that is processed in the classroom under the guidance of a scientific and pedagogical employee.

During all forms of training, individual, group and frontal methods of knowledge control and active learning methods are used. The current control is carried out in the form of an oral survey or written express control during the training sessions.

Information and methodological support

1. Doctrine. Communication and information systems. Kyiv: General Staff of the Armed Forces of Ukraine, 2020.
2. Doctrine of the Communications and Cyber Security Forces of the Armed Forces of Ukraine. Kyiv: General Staff of the Armed Forces of Ukraine, 2021.
3. Guideline "Tactical Communication" VKDP 6-110(03).01. Kyiv: General Staff of the Armed Forces of Ukraine, 2020.

Topics and allocation of class time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		3	2	1	Topic 1: Fundamentals and methods of organising military communications in tactical command and control units.
1	Group session	2	2	1	<p>Class 1. Fundamentals of radio communication. Conducting radio communication (radio exchange) in units. Field means of wire communication of tactical command and control units.</p> <p>1. General concepts of radio communication. Frequency ranges and the concept of electromagnetic wave propagation.</p> <p>2. Rules of radio communication, phonetic alphabet and numbers. The procedure for reporting on the situation, call signs.</p> <p>3. Purpose, composition and procedure for coding messages, orders using documents of covert management of units.</p> <p>4. Purpose, general structure and main specifications of the TA-57 telephone set, P-193M field switchboard.</p> <p>Independent work. Fundamentals of radio communication. Conducting radio communication (radio exchange) in units.</p> <p>1. Advantages and disadvantages of radio communication.</p> <p>2. Methods of radio wave propagation. Features of propagation of radio waves of the VHF and UHF ranges. Ways of organising radio communication.</p>
		10	8	2	Topic 2 Tactical and technical characteristics, capabilities and modes of operation of basic communication equipment in units of the tactical command and control of the Armed Forces of Ukraine. Covert command and control of units.

1	2	3	4	5	6
2	Group session	2	2		<p>Class 1. Tactical and technical characteristics, capabilities and modes of operation of the main radio communication equipment of tactical command and control units.</p> <p>1. Tactical and technical characteristics of Motorola radio stations DP 4800, DP 4400, DM 4600 (Lybid K-1A). Capabilities and modes of operation of DP 4800, DP 4400, DM 4600 (Lybid K-1A).</p> <p>2. The main tactical and technical characteristics and operating modes of HARRIS RF-7850M-HH radio stations.</p> <p>3. Options for using radio stations in tactical command and control units.</p>
3	Group session	3	2	1	<p>Class 2. Tactical and technical characteristics and modes of operation of HARRIS ultra-shortwave radio stations. Preparation for the operation of satellite communication stations of tactical command and control units.</p> <p>1. Main tactical and technical characteristics and modes of operation of HARRIS RF-7850M-HH radio stations.</p> <p>2. The composition of the radio station. Controls of the radio station. Preparing the radio for operation.</p> <p>3. Main technical characteristics, procedure for setting up and masking the StarLink satellite communication station.</p> <p>Independent work. Tactical and technical characteristics and modes of operation of HARRIS ultra-shortwave radio stations. Preparation for the operation of satellite communication stations of tactical command and control units.</p> <p>1. Application options for HARRIS RF-7850M-HH radios.</p> <p>2. The procedure for preparing the configuration and masking of the StarLink satellite communication station.</p>
4	Practical session	3	2	1	<p>Exercise 3. Application of documents for covert command and control of units in planning and performing tasks in combat zones.</p> <p>1. Procedure for coding messages and orders using documents of covert management of subdivisions.</p> <p>2. Procedure for transmitting signals and commands by radio (situation report (SITREP), contact report (CONTACT REPORT), request for evacuation of the wounded (CASEVAC)).</p> <p>Independent work. Application of documents for covert command and control of units in the planning and execution of tasks in combat zones.</p> <p>1. Procedure for coding messages and orders using documents of covert management of subdivisions.</p>

1	2	3	4	5	6
5	Practical session	2	2		Exercise 4. Work on communication means using documents of covert control of tactical command and control units. 1. Work on radio communications, transfer of information through documents of covert command of units. 2. Preparation for the operation and deployment of the StarLink satellite terminal, transmission of information to the Armed Forces command and control system via open communication channels. 3. Preparation and operation of the TA-57 field telephone set and the P-193M field telephone switchboard.
6	Final control	2	2		Credit
Total for discipline		15	12	3	

4.10. MS 1.10 "Combat system for warrior survival (including tactical medicine)"

General objective of the discipline

Training of a serviceman who is able to provide first aid in case of injuries and traumas during the performance of official (combat) functions and tasks; apply techniques and methods of ensuring life support in autonomous conditions, counteracting the impact of natural factors on a person, moving on foot over long distances.

As a result of studying the discipline, students (trainees) should:

to know:

the most common causes and signs of injuries and traumas requiring first aid, the procedure and methods of providing first aid to the injured and affected;

the procedure for organising movement on the territory controlled by the enemy;

basic life support measures in autonomous conditions;

be able to:

provide first aid in case of injuries, bleeding, poisoning and other combat injuries using service equipment;

organise and equip locations for a small unit in the face of a possible encounter with the enemy;

take measures to counteract the impact of environmental conditions on the human body.

Organisational and methodological guidelines

Classes in the discipline should be conducted to acquire theoretical knowledge and practical skills of survival in various conditions, for further use of this experience in their service and combat activities.

Theoretical concepts are practiced in the classroom with the use of teaching aids (posters, diagrams, models, training films), and practical issues are practiced on the ground using individual medical equipment and first aid equipment.

Classes are held in specialised classrooms, training complexes, laboratories, training grounds and campuses, training fields, etc.

Information and methodological support

1. Combat system of warrior survival. Study guide / Shkurpit O.M., Felko M.V., Bachynskyi V.V. Odesa: VA m. Odesa, 2018.
2. TCCC Combat Life Saver (TCCC CLS). Observations, Insights and Sessions. Handbook. 2020.
3. Standard of Individual Training STI-000G.21L "Tactical Medicine", approved by the Order of the Commander of the Medical Forces of the Armed Forces of Ukraine No. 121 28.12.2023.
4. Medical support. Requirements for training of all military personnel in combat casualty care (STANAG 2122/AMedP-8.15, "REQUIREMENT FOR TRAINING IN CASUALTY CARE FOR ALL MILITARY PERSONNEL", IDT).

Titles of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		9	6	3	Topic 1. Fundamentals of providing assistance to victims of hostilities. Assisting victims in the area of direct threat
1	Lecture	1	1	-	Class 1. First aid measures in combat conditions. Means of individual medical equipment of a serviceman. 1. Principles and algorithm of providing first aid to victims of hostilities. 2. The role and responsibility of non-medical personnel in providing assistance to victims of hostilities. 3. Means of individual medical equipment of a serviceman.
2	Group session	2	1	1	Class 2. First aid measures in combat conditions. Means of individual medical equipment of a serviceman. 1. Principles and algorithm of providing first aid to victims of hostilities. 2. Means of individual medical equipment of a serviceman. Independent work. 1. Definition and objectives of tactical medicine. 2. Fundamentals of normal human anatomy and physiology. 3. Composition and purpose of individual and group medical first aid kits. 4. Algorithm for providing assistance to a victim of MARCH PAWS.
3	Practical session	3	2	1	Exercise 3. Providing assistance to victims in the area of direct threat. 1. Basics of communication with the victim and ways to approach him/her. 2. Stop massive bleeding from the extremities using a mechanical haemostatic device (collar type). Independent work.

					<ol style="list-style-type: none"> 1. Basic action plan and safety rules for working in conditions of direct threat (under enemy fire). 2. Algorithm of actions when applying a mechanical haemostatic agent (collar type). 3. Signs of massive bleeding.
4	Practical session	3	2	1	<p>Exercise 3. Moving the victim to a shelter.</p> <ol style="list-style-type: none"> 1. Moving the victim out of the immediate threat zone independently without the use of additional equipment. 2. Moving (dragging, carrying) the victim out of the immediate threat zone in a group without the use of additional equipment. 3. Extracting the victim from the vehicle (combat vehicle, car, etc.). <p>Independent work.</p> <ol style="list-style-type: none"> 1. Ways to move the victim out of the immediate threat zone without using regular and improvised means. 2. Methods of moving (dragging, carrying) the victim out of the direct threat zone in the group without the use of additional equipment. 3. Rules for extracting a victim from a vehicle (combat vehicle, car, etc.).
		20	14	6	Topic 2. Assisting victims in the area of indirect threat
5	Practical session	3	2	1	<p>Class 1. Basics of providing assistance in an indirect threat zone.</p> <ol style="list-style-type: none"> 1. Fundamentals of providing assistance in an area of indirect threat (equipment, safety rules, communication, triage). 2. Fundamentals of assessment of victims in the area of indirect threat (principles, assessment of the status of consciousness, pulse and respiratory rate, communication with the victim and his/her isolation). <p>Independent work.</p> <ol style="list-style-type: none"> 1. Algorithm for providing assistance to a victim of MARCH PAWS.
6	Practical session	2	2		<p>Exercise 2. Assisting victims with massive bleeding - M (Massive bleeding).</p> <ol style="list-style-type: none"> 1. Examine the wounded for massive bleeding. 2. Application of indirect pressure on the vessels. 3. Applying direct pressure to the vessels. 4. The use of gate-type turnstiles for limbs with a ratchet mechanism. 5. Performing tamponade using haemostatic and conventional means. Reassess the effectiveness of tamponade. 6. Application of compression bandages.

7	Practical session	3	2	1	<p>Class 3. Assistance in case of obstruction of the upper airway - A (Airways).</p> <ol style="list-style-type: none"> 1. Manual restoration of airway patency. 2. Determining the presence of breathing (the "Hear-See-Feel" method). 3. Place the victim in a stable lateral position. 4. Restoration of airway patency in case of suspected cervical spine injury. 5. Manual removal of foreign bodies from the oral cavity. 6. Insertion of a nasopharyngeal airway. 7. Artificial lung ventilation using a ventilation bag with a mask alone or in a team. 8. State of consciousness on the AMSU scale. <p>Independent work.</p> <ol style="list-style-type: none"> 1. Structure of the human upper respiratory tract. 2. Signs of upper airway obstruction and emergency respiratory care "Tactical First Aid" (TFA). 3. Selection of a nasopharyngeal airway (NPA). 4. State of consciousness on the AMSU scale.
8	Practical session	3	2	1	<p>Class 4. Providing assistance according to the MARCH algorithm. Assessment of breathing and life-threatening chest injuries - R (Respiration).</p> <ol style="list-style-type: none"> 1. Types and symptoms of chest injuries. 2. Assessment of breathing rate and depth. 3. The procedure and sequence of chest examination. 4. The procedure for using occlusal stickers. 5. Conducting the "venting" depressurisation technique (Burping technique). 6. The procedure for needle decompression. <p>Independent work.</p> <ol style="list-style-type: none"> 1. Structure of the human chest. 2. Identification of signs of tension pneumothorax.
9	Practical session	4	2	2	<p>Class 5. Providing assistance using the MARCH algorithm. Circulation - C (Circulation).</p> <ol style="list-style-type: none"> 1. Immobilisation of the pelvic bones. 2. Assessment of radial pulse and level of consciousness. 3. Conversion and relocation of the turnstile. 4. Control (reassessment) of external and internal bleeding and search for other injuries (wounds). <p>Independent work.</p> <ol style="list-style-type: none"> 1. Reassessment of massive bleeding control. 2. Signs of a pelvic fracture.

					3. Symptoms of hypovolemic (haemorrhagic) shock. The lethal triad.
10	Practical session	2	2		Class 6. Providing assistance using the MARCH algorithm. Hypothermia (Hypothermia). 1. Use of various types of thermal blankets and heating elements. Prevention of hypothermia. 2. Examination and assessment of a victim with suspected head and eye injuries. 3. Provide pre-hospital care in case of suspected head and eye injuries.
11	Group session	3	2	1	Session 7. Thermal injuries. Fractures. Use of painkillers and antibiotics. Wounds. The procedure for providing pre-hospital care to victims with thermal injuries. Immobilisation of limbs, neck, spine. Applying a bandage when fixing foreign bodies in the victim's body. Applying a bandage to the amputated part of the limb, packing the amputated part of the limb. Wound assessment and dressing. Independent work. 1. Degrees and types of thermal injuries and methods of calculating their area. 2. Procedure for examination and assessment of a victim with suspected musculoskeletal injuries, types of musculoskeletal injuries. 3. The concept and contents of an individual pill kit (CWMP), the main types of painkillers and antibiotics.
		9	8	1	Topic 3. Sorting, moving and preparing for evacuation. Evacuation transport
12	Group session	2	2		Exercise 1. Triage in case of mass arrival of the wounded. Sorting the wounded by evacuation priority. 1. Maintaining sorting documentation. 2. Sorting algorithms and categories.
13	Group session	3	2	1	Session 2. Moving and preparing for evacuation. 1. Loading victims into/on various types of transport. 2. Securely securing the wounded for transport. 3. Give a verbal report. 4. Filling out a victim card. Independent work. 1. Types of equipment for moving victims. 2. Types of land and air transport for evacuation of victims.

14	Group session	4	4	-	<p>Session 3. Simulation exercises.</p> <p>1. Rehearse a scenario for assisting a victim with different types of injuries.</p> <p>2. Summing up the results.</p>
		19	10	9	Topic 4. Fundamentals of the combat system of survival of warriors.
15	Lecture	4	2	2	<p>Class 1. The basics of survival.</p> <p>1. The concepts of survival and autonomous existence. Factors affecting human survival.</p> <p>2. Purpose and composition of the emergency kit and emergency bag.</p> <p>Independent work.</p> <p>1. Equipment and options for equipment tiering.</p> <p>2. Methods and means of signalling.</p>
16	Group session	4	2	2	<p>Class 2. Catering and water supply.</p> <p>1. Methods of cooking and storing food in the field. Use of natural resources for food.</p> <p>2. Finding water sources, water purification and disinfection.</p> <p>3. Methods of obtaining and preserving fire. Fire for cooking.</p> <p>Independent work.</p> <p>1. Recommendations for compliance with the drinking regime.</p> <p>2. Types of bonfires and their purpose.</p>
17	Practical session	4	2	2	<p>Class 3. The basics of survival. The basics of rational nutrition and water supply.</p> <p>1. Finding water sources, water purification and disinfection.</p> <p>2. Fire production and fire preservation.</p> <p>3. Preparation and storage of food in the field. Use of natural resources for food.</p> <p>Independent work.</p> <p>1. Equipment and options for echeloning the serviceman's equipment.</p> <p>2. Modern mandatory items of personal equipment for servicemen.</p> <p>3. Principles of preparing and completing a survival kit. Typical composition of an individual survival kit.</p>
18	Group session	3	2	1	<p>Class 4. The basics of moving and studying tracks on the ground.</p> <p>1. Organisation of movement in the territory controlled by the enemy.</p> <p>2. Procedure for movement and actions when encountering the local population and the enemy.</p> <p>3. Study of footprints of people and equipment, determination of the age of the trail and the troops' camping.</p> <p>Independent work.</p>

					<ul style="list-style-type: none"> 1. Organisation of movement on the ground. Marching order during movement. 2. Rules of the tracker.
19	Group session	2	1	1	<p>Exercise 5. Orientation when operating in enemy-controlled territory.</p> <ul style="list-style-type: none"> 1. Orientation in space and time. 2. Determine the direction and follow it while driving. 3. Methods of determining distances on the ground. 4. Ways to determine the linear dimensions of local objects (landmarks). <p>Independent work.</p> <ul style="list-style-type: none"> 1. Practically solve problems of determining the local time by the celestial bodies. 2. Practically solve problems of determining distances on the ground and linear dimensions of objects.
20	Group session	2	1	1	<p>Exercise 6. Organisation of recreation in the territory controlled by the enemy.</p> <ul style="list-style-type: none"> 1. Requirements for places of rest, arrangement of shelter in different conditions. Organisation of rest. 2. Actions in the conditions of enemy use of sniffer dogs. <p>Independent work. Arranging a shelter, ensuring the safety of the resting place.</p> <ul style="list-style-type: none"> 1. Ensuring the safety of the recreation area. 2. Practice the types of shelter using the equipment and tools at hand.
22	Final control	3	2	1	Credit
Total for the discipline		60	40	20	

4.11. MS 1.11 "Statutes of the Armed Forces of Ukraine and their practical application"

General objective of the discipline

Training of a serviceman who has theoretical knowledge and practical skills and is able to establish a firm order in subordinate units, give uniform instructions on training and education of servicemen, clearly define the range of duties of soldiers and the procedure for their performance.

As a result of studying the discipline, students should:

to know:

requirements of the statutes of the Armed Forces of Ukraine;
general duties, rights and responsibilities of military personnel;
organisation of internal order in the unit;
the procedure for organising internal service in the unit (platoon, company);
the procedure for organising the training of the personnel of the daily patrol assigned from the unit;
the rights of the unit commander to apply incentives and impose disciplinary sanctions on subordinate servicemen;
Methods of conducting drill classes and the Statutes of the Armed Forces of Ukraine;

be able to:

personally comply with the requirements of the Statutes of the Armed Forces of Ukraine;
apply the requirements of the Statutes of the Armed Forces of Ukraine in the daily activities of the unit;
organise the accommodation of personnel in compliance with the requirements of the statutes and internal regulations;
organise the performance of service by the unit's personnel in daily patrols;
ensure the safe storage of weapons and ammunition;
exercise disciplinary power, correctly apply disciplinary measures (rewards, penalties) to subordinate servicemen;
conduct drill training and study of the Statutes of the Armed Forces of Ukraine with the personnel of the unit;
correctly perform elements of drill training in everyday activities.

Logistical support: classrooms, a training ground, a guardhouse, multimedia equipment.

Information and methodological support

1. Statute of the Internal Service of the Armed Forces of Ukraine.
2. Disciplinary Statute of the Armed Forces of Ukraine.
3. The Charter of the Garrison and Guard Services of the Armed Forces of Ukraine.
4. The Articles of Arms of the Armed Forces of Ukraine.
5. Standard of individual training in the subject of study "Statutes of the Armed Forces of Ukraine" (introductory course), STI 000G.17L.
6. Standard of individual training in the subject of drill (course of study of actions as part of a squad (platoon), STI 000G.29L.

Title of topics and distribution of study time by type of class

№ s/n	Types of training classes, control events	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		1	1		Topic 1. Duties, rights and responsibilities of military personnel.
1	Lecture	1	1		Class 1. Responsibilities of the command group officials. 1. Duties of the platoon leader. 2. Distribution of authority at the platoon level between the officer and the NCO.
		1	1		Subject № 2. Military discipline
2	Lecture	1	1		Class 1. Incentives and disciplinary sanctions applied and imposed on military personnel. 1. Incentives applicable to military personnel. 2. Disciplinary sanctions imposed on military personnel.
		3	2	1	Topic 3. Daily routine of a military unit.
3	Lecture	3	2	1	Class 1. Daily routine, preparation and reconnaissance. 1. Daily duty, the procedure for assigning duty and reporting on them. 2. Preparation and reconnaissance of the daily patrol. 3. Equipment of premises (places) for duty by the daily squad. Independent work. 1. Study of the duties of the persons on duty (day watch and company watch).
		2	2		Topic 4. Organisation of the guard service.
4	Lecture	2	2		Class 3. Rights and duties of guard officials. 1. Duties of guard officials. 2. Procedure for the use of physical force and weapons by guard personnel.

		6	6		Topic 5. Drill training
5	Practical session	1	1		Class 1. Formations and their management. 1. The line and its elements. Formation management and the order of giving commands. 2. Duties of servicemen before lining up and in formation. 3. Signals for formation control and machine control.
6	Practical session	1	1		Class 2. Drill techniques and unarmed movement. 1. 1. The combat position. Execution of commands: "Halt", "Stand at attention", "Attention", "At ease", "Get in line", "Headgear - take off (put on)". 2. Turns in place and while driving. 3. Movement in formation and marching steps, running.
7	Practical session	1	1		Session 3. Getting out of line, returning to line. Approaching and departing from a superior. 1. Withdrawal from deployed formation and return to formation. 2. Leaving the marching formation and returning to the formation. 3. Approaching and departing from the boss.
8	Practical session	2	2		Session 4. Drill techniques and movement with weapons. 1. The order of execution of commands: "STAND STILL", "ATTENDANCE", "AT EASE", "HATS OFF (ON)" with weapons in the "ON THE STRAP", "BEHIND THE BACK" and "ON THE BREAST" positions, "BELT LOOSEN (TIGHTEN)" as assigned. 2. Position of the weapon when moving "ON HIKE", "FOR PATROL", "DURING PATROL IN A POPULATED AREA". 3. Procedure and execution of drills "Weapon on re - ME", "Rifle on - chest", "Weapon - behind the back".
9	Practical session	1	1		Session 5. Drill techniques and movement with weapons. 1. Drills with weapons: "Put down - WEAPON", "To - WEAPON", "Behind - WEAPON" by distributions. 2. Performing drills with weapons: "Put down - WEAPON", "To - WEAPON", "Behind - WEAPON" in general. 3. Performing a military salute with weapons on the spot and in motion.
10	Final control	2	2		Credit
Total for the discipline		15	14	1	

4.12. MS 1.12 "Small arms and firearms training"

General objective of the discipline

Training of a serviceman who is able to use small arms, grenade launchers, be able to fire them, and control platoon fire in various types of combat in order to perform assigned combat tasks.

As a result of studying the discipline, students (trainees) should:

to know:

purpose, tactical and technical characteristics, combat properties, general structure, principle of operation, procedure for incomplete disassembly and assembly after incomplete disassembly, as well as the procedure for post-firing maintenance of the unit's standard weapons;

the procedure for observing the battlefield and selecting a target, initial settings for each type of weapon, the procedure for conducting and adjusting fire, and methods of targeting;

the basics of fire control and the procedure for setting fire missions for the unit;

the procedure for using night sights and surveillance devices;

safety measures when handling small arms and grenades;

be able to:

use regular weapons;

conduct combat checks and bring the weapon to normal combat at different distances;

use lighted reactive, signal cartridges and signal pistols.

Organisational and methodological guidelines

The training is conducted at firing ranges and sites. Prior to the Practical session, it is mandatory to study the safety measures and clarify (refine) them before the start of the training. Personnel arrive for Practical session in full field equipment with weapons.

During Practical session, the purpose, combat properties and structure of weapons, ammunition, aiming and observation devices, as well as the basics and rules of shooting are studied.

During firearms training, skills are developed and improved in handling weapons (firing techniques), reconnaissance of targets by observation, determination of their range and targeting.

The firing exercises shall be conducted in accordance with the Course of Fire from Small Arms and Combat Vehicles. During firing exercises, use elements of psychological impact on the trainees, namely firing blank ammunition behind the firing party and using explosive packages at safe distances.

Information and methodological support

1. Small arms and combat vehicle firing course. Order of the General Staff of the Armed Forces of Ukraine of 17 April 2018, no. 160.
2. Collection of Standards for Combat Training of the Land Forces of the Armed Forces of Ukraine - Kyiv: Military Publishing House, 2021.
3. Manual of fire 5.45 mm Kalashnikov rifles (AK-74, AKS-74, AK-74N, AKS-74N) and 5.45 mm Kalashnikov machine guns (RPK-74, RPK-74N, RPK-74N). VKDP 7-00(01).01.
4. Manual on shooting 7.62 mm Kalashnikov machine guns KK, KKM, KKS, KKMS, KKB, KKMB, KKT". VKDP 7-00(01).01.
5. RPG-7V (RPG-7D) Hand-held Anti-Tank Grenade Launcher Manual. VKDP 7-01(03-05, 22, 23)03.01.
6. Manual. On the use of foreign-made weapons in the Armed Forces of Ukraine (instructions for use). Part 1 (small arms). MS 7-(01).03.01.
7. Manual. On the use of foreign-made weapons in the Armed Forces of Ukraine (instructions for use). Part 2 (anti-tank weapons). MS 7-(01).03.01.
8. Handbook for the commander of a mechanised unit. MS 7-00(11).01.

Title of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		22	16	6	Topic 1. Arming units.
1	Lecture	4	2	2	Class 1. General concepts of small arms. 1. The main tasks and procedure for studying the discipline. 2. The purpose of modern small arms and melee weapons. 3. Design properties of small arms and melee weapons. Independent work. 1. Classification of small arms. 2. Learn the basics and rules of shooting.
2	Group session	3	2	1	Session 2. 5.45 mm RPK-74 machine gun. 1. Purpose, combat characteristics, general structure of the RPK-74 machine gun, completeness, operation of parts and mechanisms of the standard weapon. Ammunition, spare parts and accessories. 2. The procedure for incomplete disassembly of weapons and assembly after incomplete disassembly. Maintenance of weapons. 3. Checking the combat and bringing the RPK-74 machine gun back to normal. Independent work. 1. Preparing the RPK-74 machine gun for firing.
3	Group session	3	2	1	Session 3. 7.62 mm PKM (PC) machine gun. 1. Purpose, combat characteristics, general structure of the PKM (PC) machine gun. Completeness, ammunition, spare parts and accessories. 2. The procedure for incomplete disassembly of weapons and assembly after incomplete disassembly. Maintenance of weapons. 3. Check the combat and bring the PKM (PKT) machine guns back to normal.

1	2	3	4	5	6
					Independent work... 1. Possible delays in firing and how to eliminate them.
4	Group session	3	2	1	Session 4. Service pistols. 1. Purpose, combat properties, general structure, operation of parts and mechanisms of service pistols. Ammunition, spare parts and accessories. 2. The procedure for incomplete disassembly of weapons and assembly after incomplete disassembly. Maintenance of weapons. Independent work. 1. Possible delays in firing and how to eliminate them.
5	Group session	4	4	-	Session 5. 40 mm RPG-7V (RPG-7D) hand-held anti-tank grenade launcher. RPG-18 rocket-propelled grenades. 1. Purpose, combat capabilities, general structure and procedure for use of the RPG-7. 2. The procedure for incomplete disassembly and assembly of the RPG-7. Alignment of the RPG-7 sighting devices. 3. Purpose, combat properties, general structure of RPG-7 rounds and RPG-18, RPG-22, 26 grenades. Independent work. 1. Preparing the RPG-7B (RPG-7D) grenade launcher for firing.
6	Group session	2	2	-	Class 6. Small arms and grenade launchers of the leading countries of the world. 1. NATO rifles, machine guns and grenade launchers. 2. Purpose, general structure, principle of operation of the AR-15 platform. 3. The procedure for incomplete disassembly of weapons and assembly after incomplete disassembly. Maintenance of weapons.
7	Group session	3	2	1	Session 7. Checking the combat and bringing small arms to normal combat. 1. Check the combat and bring the weapon to normal combat at different distances. 2. Combat checks and bringing the weapon to normal operation of NATO small arms. Independent work. 1. Improving the skills of bringing weapons to normal combat.
		3	2	1	Topic 2. The basics of shooting.

8	Group session	3	2	1	<p>Class 1. Internal and external ballistics.</p> <p>1. Information on internal and external ballistics. 2. Explosives. Main groups of explosives. 3. Shot periods. 4. Measurement of angles, formula for the thousandth.</p> <p>Independent work.</p> <p>1. Learn the basic concepts of internal and external ballistics.</p>
		10	6	4	Topic #3. Rules of shooting.
9	Group session	4	2	2	<p>Session 1. Rules of small arms fire.</p> <p>1. Rules for choosing a sight and aiming point when shooting small arms at targets. 2. Influence of firing conditions on the flight of a bullet. Determination of corrections for deviations from normal (tabulated) firing conditions. 3. Composition, purpose of KJ-83, KJ-2017 and the procedure for their application.</p> <p>Independent work.</p> <p>1. Solving firing tasks.</p>
10	Group session	4	2	2	<p>Class 2. Rules of fire from the 40mm RPG-7B (RPG-7D) anti-tank grenade launcher.</p> <p>1. Rules for assigning initial settings. 2. Rules of fire from the 40-mm RPG-7V (RPG-7D) anti-tank grenade launcher against moving and emerging targets.</p> <p>Independent work.</p> <p>1. Field rules of fire from the 40-mm RPG-7V (RPG-7D) anti-tank grenade launcher.</p>
11	Group session	2	2		<p>Session 3. Fire mission. Its essence and sequence of solution.</p> <p>1. General information about shooting from different types of weapons. 2. Elements of solving a fire mission. 3. 3. Direct shooting training.</p>
		6	4	2	Topic 4. Methodological training of unit commanders.

12	Group session	4	2	2	<p>Session 1. Methods of conducting firearms training.</p> <p>1. General requirements, methods and forms of firearms training. 2. Organisation and procedure of fire training. 3. Assessment of firearms training. Independent work. 1. Procedure for working on teaching and training cards.</p>
13	Practical session	2	2		<p>Exercise 2. Organisation and conduct of control fire training exercises.</p> <p>1. The procedure for organising control classes. 2. The procedure for conducting control classes.</p>
		43	37	6	Topic 5. Fire training. Performing firing exercises with small arms and melee weapons.
14	Group session	2	2	-	<p>Class 1. Basic provisions of the Small Arms and Combat Vehicle Shooting Course, shooting conditions and safety measures.</p> <p>1. Basic provisions of the Small Arms and Combat Vehicle Shooting Course. 2. Conditions for firing exercises and safety measures.</p>
15	Practical session	2	2	-	<p>Session 2. Maintenance, preparation of machine guns (5.45 mm RPK-74 machine gun, 7.62 mm PKM (PC) machine gun) and 40 mm RPG-7 grenade launcher for firing. Fulfilment of fire training standards. Solving fire tasks.</p> <p>1. Maintenance, preparation of machine guns (5.45 mm RPK-74 machine gun and 7.62 mm PKM (PC) machine gun) for firing. 2. Maintenance and preparation of a 40 mm RPG-7 grenade launcher for firing. 3. Fulfilment of fire training standards No. 13, 14, 16 for machine guns and 40 mm RPG-7 grenade launcher.</p>
16	Practical session	7	6	1	<p>Session 3. Exercises on firing from a 5.45 mm AK-74 rifle, a 40 mm RPG-7 grenade launcher (PUS-7), and throwing a hand-held training grenade.</p> <p>1. Execution of the training exercise COP 2.01.1.1 "Shooting from a standstill at emerging targets" with the 5.45 mm AK-74 rifle. 2. Execution of the initial firing exercise COP 1.06.1.1 "Shooting from a standstill at a stationary target with PUS-7" from a 40 mm RPG-7 grenade launcher. 3. Performing the initial training grenade throwing exercise COP 4.16.2.6 "Throwing an offensive hand grenade on the move in foot order". 4. Practicing firearms training standards No. 1 and 2 for the 5.45 mm AK-74 rifle and 40 mm RPG-7 grenade launcher. Independent work. 1. Servicing the weapon after firing.</p>

17	Practical session (night)	5	4	1	<p>Session 4. Practical shooting with 5.45 mm AK-74 at night.</p> <p>1. Execution of the training exercise COP 2.01.1.1 "Shooting from a standstill at emerging targets" with the 5.45 mm AK-74 rifle at night.</p> <p>2. Practicing firearms training standards No. 1, 2 and the procedure for aiming at night using a device for night shooting with a 5.45 mm AK-74 rifle.</p> <p>3. Rules for the use of illuminated reactive, signal cartridges and signal pistols. Procedure for the use of night sights and surveillance devices.</p> <p>Independent work.</p> <p>1. Servicing the weapon after firing.</p>
18	Practical session (methodological practice)	7	6	1	<p>Exercise 5. Exercises with 5.45 mm AK-74 rifle, RPK-74 machine gun, 40 mm RPG-7 grenade launcher.</p> <p>1. Execution of the training exercise COP 2.01(03-04).1.1 "Shooting from a standstill at emerging targets" with the 5.45 mm AK-74 rifle and RPK-74 machine gun at the positions in the combined rifle squads.</p> <p>2. Execution of the COP 2.06(07).1.1 "Shooting from a standstill at an emerging target" and the COP 1.06.1.1 "Shooting from a standstill at a stationary target with PUS-7" from a 40 mm RPG-7 grenade launcher.</p> <p>3. Practicing fire training standards No. 1, 2 for the 40 mm RPG-7 grenade launcher and fire training standards No. 26, 27, 28, 29 for the 5.45 mm AK-74 rifle.</p> <p>4. Training in performing the duties of a rifle squad commander in organising and controlling squad fire</p> <p>Independent work.</p> <p>1. Servicing the weapon after firing.</p>
19	Practical session	7	6	1	<p>Exercise 6. Exercise control firing from a 5.45 mm AK-74 rifle (RPK-74 machine gun) and a 40 mm RPG-7 grenade launcher.</p> <p>1. Execution of the control firing exercise COP 3.01.1.1 "Shooting from a standstill at emerging targets with a change of firing position" with the 5.45 mm AK-74 rifle by positions in combined rifle squads.</p> <p>2. Execution of the control firing exercise COP 3.06.2.1 "Shooting from a fixed position with a change of firing position at targets that appear and move , with RPG " by positions in combined rifle squads.</p> <p>3. Training in performing the duties of a rifle squad commander in organising and managing squad fire.</p> <p>Independent work.</p> <p>1. Servicing the weapon after firing.</p>

20	Practical session	7	6	1	<p>Session 7. Execution combat firing exercises of combat groups (twos, threes) with an assault rifle, a handgun, a machine gun and an under-barrel grenade launcher.</p> <p>1. Execution of the live-fire exercise COP 6.18.2.2 "Firing as part of a machine gun crew".</p> <p>2. Execution of the live-fire exercise COP 6.18.2.3 "Firing as part of a combat team in various ways" with the 5.45 mm AK-74 rifle.</p> <p>3. Practicing firearms training standards No. 30, 31, 32, 33 with the 5.45 mm AK-74 rifle.</p> <p>4. Solving firing tasks.</p> <p>Independent work.</p> <p>1. Servicing the weapon after firing.</p>
21	Practical session	6	4	2	<p>Exercise 8. Exercise of training firing from 9 mm PM and Fort-14 pistols.</p> <p>1. Execution of the training exercise COP 2.12.1.1 "Shooting at a stationary target" with a 9 mm PM pistol and Fort-14.</p> <p>2. Training in the implementation of firearms training standards No. 13, 14, 16 for the 9 mm PM pistol. Safety measures during practical shooting.</p> <p>3. Fulfilment of firearms training standards No. 1, 2, 24, 25 for the 9 mm PM pistol and Fort-14</p> <p>Independent work.</p> <p>1. Servicing the weapon after firing.</p>
22	Final control	6	4	2	Credit
Total for the discipline		90	68	22	

4.13. MS 1.13 "Fundamentals of military law and international humanitarian law"

General objective of the discipline

To prepare a serviceman who is able to apply knowledge of international humanitarian law; understand the procedure for military service, bringing servicemen to criminal, administrative and material responsibility; know the procedure for conducting an internal investigation in the Armed Forces of Ukraine; social and legal protection of servicemen and their families within the framework of the current legislation of Ukraine.

As a result of studying the discipline, students should:

to know:

the procedure for military service;

social and legal protection of military personnel and their families;

the procedure for bringing servicemen to administrative responsibility;

the procedure for bringing military personnel to financial responsibility;

the procedure for bringing military personnel to criminal liability;

the procedure for conducting an internal investigation in the Armed Forces of Ukraine;

requirements of international humanitarian law;

be able to:

conduct an internal investigation with the preparation of all necessary documents;

draw up a report on a military administrative offence;

to bring violators of military discipline in the unit to disciplinary, administrative and financial responsibility;

manage the unit in compliance with international humanitarian law.

Organisational and methodological guidelines

The subject of the discipline is the theory of studying the legislation of Ukraine and the practical application of its requirements during military service.

Lectures and practical classes should be conducted to consolidate and deepen theoretical knowledge, as well as to instil in students the skills to use theoretical provisions in solving specific practical problems. In practical classes, it is advisable to practice using tasks that require logical thinking and promote the development of students' creative abilities.

Information and methodological support

1. The Constitution of Ukraine.
2. On Military Duty and Military Service. Law of Ukraine, 1992 (as amended).
3. Regulations on the Military Service of Citizens of Ukraine in the Armed Forces of Ukraine. Decree of the President of Ukraine, 2022.
4. On Social and Legal Protection of Servicemen and Members of Their Families. Law of Ukraine, 1991 (as amended).
5. Statute of the Internal Service of the Armed Forces of Ukraine.
6. Disciplinary Statute of the Armed Forces of Ukraine.
7. The Code of Ukraine on Administrative Offences.
8. On the Status of War Veterans and Guarantees of Their Social Protection. Law of Ukraine, 1993 (as amended).
9. Instruction on the Procedure for the Implementation of International Humanitarian Law in the Armed Forces of Ukraine. Approved by the Order of the Ministry of Defence of Ukraine of 23.03.2017 No. 164.
10. The Procedure for Conducting an Internal Investigation in the Armed Forces of Ukraine, approved by Order of the Ministry of Defence of Ukraine No. 608 21.11.2017 (registered with the Ministry of Justice of Ukraine on 13.12.2017 under No. 1503/31371).
11. Methodological Recommendations on Conducting an Internal Investigation (Inspection) in the Armed Forces of Ukraine (third edition), approved by the Commander-in-Chief of the Armed Forces of Ukraine on 10.2020.

Title of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		3	2	1	Topic 1. Military duty and military service.
1	Lecture	2	2	1	<p>Class 1. The procedure for military service. Social and legal protection of servicemen and their families</p> <p>1. Types of military service. Peculiarities of military service by different categories of servicemen in peacetime and wartime.</p> <p>2. The concept of the right to social protection. Benefits for servicemen and members of their families</p> <p>Independent work.</p> <p>1. Peculiarities of military service by persons called up for mobilisation.</p> <p>2. The age limit for military service under martial law.</p>
		5	4	1	Topic 2. Legal responsibility of military personnel.
2	Group session	2	2	-	<p>Class 1. Administrative and material responsibility of military personnel.</p> <p>1. Peculiarities of administrative responsibility of military personnel.</p> <p>2. Legal characteristics of military administrative offences.</p> <p>3. The concept and grounds of liability.</p> <p>4. Types of material liability. The procedure for compensation for material damage.</p>

1	2	3	4	5	6
3	Lecture	3	2	1	<p>Class 2. Criminal liability of military personnel.</p> <p>1. Peculiarities of criminal liability of military personnel. 2. The concept, composition and types of military criminal offences. 3. Criminal law characteristics of certain military criminal offences.</p> <p>Independent work.</p> <p>1. Physical or mental coercion. 2. Execution of a lawful order or instruction. 3. An act involving risk.</p>
		2	2	-	Topic 3. Service inspection and service investigation in the Armed Forces of Ukraine.
4	Practical session	2	2	-	<p>Class 1. Methods of conducting an internal audit and internal investigation.</p> <p>1. The concept, tasks, grounds for appointment and peculiarities of an internal audit and internal investigation. 2. Taking written explanations (determining the list and content of questions) in the course of an internal audit and internal investigation into a given fact. 3. Procedure for conducting and documenting the results of an internal audit and internal investigation.</p>
		3	2	1	Topic 4. Application of international humanitarian law.
5	Group session	3	2	1	<p>Class 1. Application of international humanitarian law.</p> <p>1. Determination of the legal status of participants in hostilities. 2. Prohibited means and methods of warfare. 3. Legal regime for the protection of war victims and prisoners of war. 4. International legal protection of civilian objects and cultural property. 5. Watching the educational film "Law of Armed Conflict" and analysing the violations of international humanitarian law. 6. Solving the tasks of the interactive primary curriculum on the law of war. 7. Responsibility for violations of international humanitarian law</p> <p>Independent work.</p> <p>1. A civilian object during an armed conflict. 2. Protection of cultural property in the event of armed conflict. 3. Special measures to protect women.</p>
6	Final control	2	2	-	Credit
Total for the discipline		15	12	3	

4.14. MS 1.14 "Intelligence Training"

General objective of the discipline

Acquiring theoretical knowledge and practical skills in conducting reconnaissance, detecting and assessing the enemy in the unit (link - squad, platoon), as well as in the organisation, armament, tactics of actions, motorised infantry (tank) units of the armed forces of the Russian Federation (link - squad, platoon, company), and the main means of destruction used by the enemy in the war against Ukraine.

As a result of studying the discipline, students should:

to know:

military intelligence agencies of the unit, their capabilities in conducting intelligence;
types and methods of tactical reconnaissance, the procedure for conducting reconnaissance in a unit;
the organisational structure, weapons, equipment and tactics of units (squad, platoon, company) of the motorised rifle (tank) troops of the armed forces of the Russian Federation;
the main means of destruction used by the enemy in the war against Ukraine;

be able to:

organise and conduct intelligence in the unit;
select landmarks, determine their distances and draw a map of landmarks;
Identify and expose enemy objects, weapons and equipment;
assess the external environment and the enemy.

Organisational and methodological guidelines

The academic discipline "Intelligence Training" is closely interrelated with the academic discipline "General Tactics".

Lectures and group classes are conducted to study the organisation, tactics, tactical and technical characteristics and intelligence features of weapons and military equipment of the main units of the Russian Army (squad and company), as well as the basics of conducting reconnaissance, detecting and assessing the enemy in the unit.

Seminars and practical classes are held to consolidate and deepen the theoretical knowledge and practical skills acquired during lectures and group classes.

The final result of studying the discipline is the acquisition of theoretical knowledge of the organisation and tactics of enemy actions, as well as the basics of conducting intelligence in the unit.

Information and methodological support

1. Manual for studying the organisational structure of the units of the ground forces of the armed forces of the Russian Federation. - Kyiv: DIU, 2024. - 68 p.
2. Study guide. Intelligence and Foreign Armies. Part 2. Information work. - Zhytomyr: ZhVI, 2019. 124 p.
3. Study guide. Organisation, armament and basics of tactics of the motorised rifle units of the Land Forces of the Armed Forces of the Russian Federation: ZhVI, 2020. 351 p.
4. Handbook of the JFO participant. Arms and military equipment of the RF Armed Forces - Kharkiv: KHNUPS, 2020.

Title of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		3	2	1	Topic 1. Fundamentals of military intelligence
1	Lecture	3	2	1	Session 1. Tactical reconnaissance. 1. Purpose, tasks, types, forces and means of tactical intelligence. 2. Methods of conducting military intelligence. 3. Military intelligence agencies. Independent work. 1. Purpose, tasks, types of tactical intelligence. 2. Military intelligence agencies and their characteristics.
		3	2	1	Topic 2. Organisational structure and armament of motorised infantry (tank) units of the Russian armed forces
2	Group session	3	2	1	Class 1. Organisational and staffing structure, weapons and combat equipment of motorised infantry (tank) units of the Russian Armed Forces. 1. Organisational and staffing structure of a motorised infantry (tank) division (crew), weapons and military equipment, their visual identification. 2. Organisational and staffing structure of a motorised infantry (tank) platoon, weapons and military equipment, their visual identification. 3. Organisational and staffing structure of a motorised infantry (tank) company, weapons and military equipment, their visual identification. Independent work. 1. Organisational and staffing structure of a motorised infantry (tank) platoon. 2. Organisational and staffing structure of a motorised infantry (tank) company.

1	2	3	4	5	6
		6	4	2	Topic 3. Fundamentals of Combat by Motorised Rifle (Tank) Units of the Russian Armed Forces
3	Group session	3	2	1	Session 1. Motorised rifle (tank) units of the Russian Armed Forces in defence. 1. Fundamentals of defensive combat of motorised infantry (tank) units of the Russian Armed Forces (purpose, conditions, types, tasks). 2. A motorised rifle unit in defence. 3. A motorised infantry (tank) platoon in defence. 4. A motorised infantry (tank) company in defence. Independent work. 1. A motorised infantry (tank) platoon in defence. 2. A motorised infantry (tank) company in defence.
4	Group session	3	2	1	Session 3. Motorised rifle (tank) units of the Russian Armed Forces in the offensive. 1. Fundamentals of offensive combat of motorised infantry (tank) units. 2. A motorised rifle squad in the offensive. 3. A motorised infantry (tank) platoon in the offensive. 4. A motorised infantry (tank) company in the offensive. Independent work. 1. A motorised infantry (tank) platoon in the offensive. 2. A motorised infantry (tank) company in the offensive.
5	Final control	3	2	1	Credit
Total discipline		15	10	5	

4.15. MS 1.15 "Fundamentals of organising and conducting warfare in the electromagnetic environment and cyberspace"

General objective of the discipline

Acquaintance of cadets with basic terms and definitions, basics of organisation and conduct of electronic warfare and cyber intelligence (planning, methods of employment of electronic warfare and cyber warfare units), tactical and technical characteristics of electronic warfare and cyber warfare means, procedure of deployment and intended use, as well as implementation of basic cybersecurity measures (cyber hygiene), understanding of the main aspects of cyber operations.

As a result of studying the discipline, students should:

to know:

Definition, tasks and components of electronic and cyber warfare;
organisational structure, equipment and combat capabilities of the electronic warfare unit within the military unit;
basic tactical standards for the use of an EWR unit;
basic organisational measures for electronic and cyber defence;
the procedure for collecting and using information on the electronic environment to ensure the use of the unit;

be able to:

organise and carry out electronic protection of electronic means (proper use of communication equipment, etc.) of the unit;
use the basic methods of fighting in an electromagnetic environment;
apply regulatory and legal acts and guidelines for conducting warfare in the electromagnetic environment in everyday activities;
to solve the problem of detecting signals of cellular communication facilities and wireless access points deployed using Wi-Fi and Bluetooth technologies;
apply basic methods and tools for searching for information from open sources;
take measures to mislead the enemy using social networks, messengers and information platforms;
to use means of processing and transmitting information in the information and communication systems of the Armed Forces of Ukraine in compliance with the requirements of guiding documents in the field of cybersecurity and information protection;
act in accordance with the requirements of the guidelines on the procedure for responding to cyber incidents in the information and communication systems of the Armed Forces of Ukraine.

Organisational and methodological guidelines

The academic discipline "Fundamentals of organising and conducting warfare in the electromagnetic environment and cyberspace" is closely interrelated with the academic discipline "Organisation of military communications".

Information and methodological support

Main literature:

1. Law of Ukraine on the Protection of Information in Information and Communication Systems.
2. Law of Ukraine On the Basic Principles of Ensuring Cybersecurity of Ukraine.
3. Rules for Ensuring Information Protection in Information, Electronic Communication and Information and Communication Systems, approved by Resolution of the Cabinet of Ministers of Ukraine No. 373 29.03.2006.
4. Concept for the development of the electronic warfare system in the Armed Forces of Ukraine until 2026.
5. VKP 10(3)-27(03.01. Doctrine on electronic warfare in joint operations.
6. Guidelines "Organisation and Conduct of Electronic Warfare in Combined Arms Combat". Developed by the working group of the Electronic Warfare Department of the Main Directorate of Electronic and Cyber Warfare of the General Staff of the Armed Forces of Ukraine. 2022p.
7. Electronic warfare. Joint Publication JP 3-13.1 - USA, 2012.

Title of topics and distribution of study time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		2	2	-	Topic 1. Fundamentals of organising and conducting electronic warfare in the Armed Forces of Ukraine.
1	Lecture	2	2	-	Class 1. Fundamentals of electronic warfare organisation in the Armed Forces of Ukraine. Combat capabilities of electronic warfare forces and means. 1. Definition, tasks and components of electronic warfare. The electronic warfare management system of the PC of Ukraine. 2. Organisational and staffing structure of the units of the SSR (type of the Armed Forces of Ukraine). 3. Theoretical foundations of electronic jamming of radio communications, UAVs and radar. 4. Purpose and main tactical and technical characteristics of the equipment of the electronic warfare unit. Tasks and combat capabilities of the electronic warfare unit. 5. Options for building combat formations of an electronic warfare unit of a military unit (brigade) in defence and offence.
		4	4	-	Topic 2. Organisation of the use of electronic warfare units
2	Lecture	2	2	-	Class 1. Organisation of the use of electronic warfare units. 1. Planning of radio jamming by the EW unit (by area of activity). 2. Planning of the use of the electronic protection unit (by area of activity). 3. Planning the use of an electronic warfare support unit from a military unit (by area of activity).
3	Group session	2	2	-	Class 2. Planning the use of electronic warfare units. 1. The list of documents to be worked out in the course of planning radio suppression and their content. 2. Measures to ensure radio electronic protection of troop and weapon control systems (radio electronic means) of a military unit. 3. Electronic warfare support capabilities and their tasks for planning the use of military units.

1	2	3	4	5	6
		6	6	-	Topic 3. Fundamentals of organising and conducting cyber operations to obtain information about the enemy
4	Lecture	2	2	-	Class 1. Wi-Fi and Bluetooth wireless access technologies: basics of application and features of operation. 1. Basic principles of wireless access technologies and cellular networks. Parameters and characteristics of network signals. 2. Features of wireless technologies and cellular networks
5	Practical session	2	2	-	Class 2. The basics of cyber intelligence in relation to Wi-Fi and Bluetooth wireless access technologies. 1. Scans the radio frequency spectrum of Wi-Fi and Bluetooth wireless access technologies to detect the presence of access points and radiation sources. 2. Basic principles of conducting actions in cyberspace in relation to enemy reconnaissance assets in mobile cellular networks, Wi-Fi, Bluetooth networks.
6	Group session	2	2	-	Class 3. Basic principles of using methods and tools for searching for information in open sources. 1. Identification of intelligence sources. 2. Use of information retrieval methods and tools. 3. Analysis of the results.
7	Final control	3	2	1	Credit
Total for the discipline		15	14	1	

4.16. MS 1.16 "Fundamentals of the use of tactical class unmanned systems"

General objective of the discipline

Acquaintance of cadets (students) with basic terms and definitions, basics of organising the use of unmanned aerial vehicles (UAVs) (planning, methods of using UAVs), classification and tactical and technical characteristics of UAVs, their structure, procedure of deployment and intended use.

As a result of studying the discipline, students (trainees) should:

to know:

purpose, composition, principles of operation of unmanned systems on the example of unmanned aircraft systems of tactical classes;

operating rules and restrictions on UAVs and target loads;

the basics and procedure for preparing for the use of tactical class UAVs;

main tactical and technical characteristics of the regular UAVs of the air force, the armed forces, the army, artillery and reconnaissance units of the armed forces of Ukraine and the armed forces of the Russian Federation;

be able to:

to prepare for the use and use of copter-type UAVs;

organise data transfer from the BpAC;

use Kropyva software to determine coordinate information;

to act individually and as part of a unit when planning to use tactical-class UAVs.

Organisational and methodological guidelines

The academic discipline "Fundamentals of the use of tactical class unmanned systems" is closely interrelated with the academic discipline "General Tactics".

Information and methodological support

1. Guidelines for the combat use of Class I UAVs in the Armed Forces of Ukraine (Order of the General Staff of the Armed Forces of Ukraine No. 379DSK 09.12.2021).

2. Fundamentals of construction of unmanned robotic systems for special purposes: a textbook / Y.G. Danik, P.P. Topolnitsky, I.V. Puleko, P.V. Pozdnyakov, A.V. Rodionov, M.V. Bugayov - Zhytomyr: ZhVI, 2016. - 306 p.
3. STANAG 4670 (Edition 1). Recommended Guidance for the Training of Designated Unmanned Aerial Vehicle Operator. NATO Standardisation Agreement. 2006.
4. STANAG 4671 (Edition 1). Unmanned Aerial Vehicle Systems Airworthiness Requirements. NATO Standardisation Agreement. 2009.
5. Concept of equipping military units and subdivisions of the Armed Forces of Ukraine with unmanned aerial systems for the period up to 2025. Order of the Ministry of Defence of Ukraine of 02.11.2016 No. 580.
6. The concept of using unmanned aerial systems in the Armed Forces of Ukraine. Order of the Chief of the General Staff of the Armed Forces of Ukraine of 13.05.2017 No. 169.

Topics and allocation of class time by type of class

№ s/n	Types of training sessions, control measures	Total hours	Among them.		Topic title and study questions
			Under the guidance of the AS, instructors	Independent work	
1	2	3	4	5	6
		7	6	1	Topic 1. Technical training
1	Lecture	2	2		Class 1. Current state and prospects for the development of tactical unmanned systems. 1. The role and place of the discipline "Fundamentals of the use of tactical class unmanned systems" in the system of training of officers. 2. Current state, types and classification of unmanned systems in the Armed Forces of Ukraine. 3. 3. The main guiding documents regulating the use of unmanned systems in the Armed Forces of Ukraine.
2	Lecture	2	2		Class 2. Classification of unmanned systems. 1. Classification of unmanned aerial systems. 2. Classification of ground robotic systems (platforms). 3. Classification of marine unmanned vehicles (systems, complexes). 4. 4. The main models of BPS used by units of the Armed Forces of Ukraine.
3	Group session	3	2	1	Class 3. Components of UAVs and principles of UAV operation. 1. Components of unmanned systems (on the example of UAVs). 2. Principles of operation of copter and aircraft-type UAVs. 3. External factors affecting UAV flight. 4. General characteristics of navigation systems used in unmanned systems. Independent work. 1. UAV controls, basic parameters of flight data and the procedure for its processing. 2. Development of a flight plan. 3. The main forms and methods of using unmanned systems.

1	2	3	4	5	6
		6	4	2	Topic 2. Tactical and specialised training.
4	Group session	3	2	1	<p>Class 1. The procedure for planning the use of UAVs. Types of reporting and information documents and the procedure for their execution based on the results of the use of unmanned systems.</p> <p>1. Features of planning the use of tactical class UAVs. 2. General approaches to drawing up a flight mission, development of planning documents for the use of UAVs. 3. Types of reporting and information documents (RIDs) and the procedure for their preparation. Independent work.</p> <p>1. Features of the use of tactical class UAVs in combat conditions. 2. Features and procedure for decoding aerial reconnaissance materials. 3. Rehearsing options for conducting aerial reconnaissance and adjusting artillery fire using various types of UAVs</p>
5	Practical session	3	2	1	<p>Class 2. Practice basic UAV control skills on a simulator for copter-type UAVs.</p> <p>1. Practice launching and landing a copter-type UAV. 2. Practicing basic flight procedures, including artillery fire correction using copter-type UAVs. Independent work.</p> <p>1. Purpose and peculiarities of the use of the Kropyva SPZ by UAV crews. 2. The main types and capabilities of tactical-class regular UAVs in the Air Force, Special Forces, Combined Arms and Artillery units, and military intelligence units. 3. Preparation for the test in the discipline.</p>
6	Final control	2	2		Credit
	Total for the discipline	15	12	3	

BC 1 Command and control and tactics of marine units

component name

General objective of the educational programme component:

The main objective of teaching the discipline "Command and Control and Tactics of Marine Corps Units" is to:
study of modern combined arms combat, forms and methods of employment of the marine platoon, methods of movement and positioning;

development of practical skills in the Troops Leading Procedure (TPL), development of a platoon commander's decision, its application to a working map and reading of the tactical situation, platoon management in the main types of combat (tactical actions);

training of an officer capable of creatively applying the provisions of the Military Regulations in preparation for landing and during combat missions, organising combat behind enemy lines and managing a unit in combat; organising and methodically conducting tactical training classes.

As a result of studying a component of the educational programme, the student should:

to know:

the main forms of tactical actions of units and their types; the role, place and tasks of units in a combined arms battle;

the basic principles and methods of conducting general combat;

the content of platoon preparation for action, the algorithm of the platoon commander's work on the organisation of combat, including the organisation of interaction and comprehensive support;

organisational and staffing structure of the platoon, combat and comprehensive support units;

tactical and technical characteristics of weapons and military equipment (WME) of regular and attached units, the procedure for their use in combat;

platoon communications equipment, its tactical and technical characteristics and the procedure for using it;

the content of unit management and its requirements, methods of unit management in combat, the procedure for reporting the situation and command signals;

types of manoeuvre by units and platoon fire and the order of their organisation during combat;

the basics of combat, logistics, technical, moral and psychological, and medical support of the platoon and the procedure for their organisation during combat;

the basics of locating units on site and organising their security;
basics of movement of units, their marching security and organisation of transportation;
the basics of unit defence, defence in special conditions, platoon actions in encirclement and escape from encirclement, the procedure for withdrawal from combat and retreat;
basics of offensive combat of units, offensive in special conditions, during the crossing of water obstacles.

be able to:

make decisions in a timely manner, set tasks, persistently pursue their implementation and report to the senior commander on the completion of the task in a timely manner;
skilfully use the platoon's firepower and the results of enemy fire damage;
prepare the platoon and attached units for action;
skilfully manage staff and attached units in the performance of assigned tasks;
call for and adjust artillery and aviation fire;
timely arrange maintenance of weapons and equipment, and in case of damage, report to the senior commander and arrange for repair;
skilfully use communication equipment and train their subordinates to work with it, including the use of negotiation tables, coded cards and signal tables;
monitor the consumption of ammunition, fuel, food and water, report to his/her commander on the use of ammunition and fuel in a timely manner, and take measures to replenish them;
ensure that the equipment of NCOs and soldiers is maintained and used correctly;
organise moral, psychological and medical support, take measures to provide timely shelter for the wounded, servicemen and women who have suffered severe combat and psychological trauma, and keep records of them.

Organisational and methodological guidelines:

Classes in the discipline "Command and Control and Tactics of Marine Corps Units" are conducted as part of a training platoon in lectures, group, practical, and independent classes. Classes are held in equipped classrooms and areas of the tactical field. Prior to the Practical session, it is mandatory to study (perfect) safety measures and clarify them before the start of the training. Personnel arrive for Practical session in full field equipment with small arms.

In group classes, students receive theoretical knowledge on the use of a platoon in tactical operations, while in practical classes, students practise platoon operations. The main focus is on students performing practical tasks in the role of a platoon commander. The knowledge and skills acquired are reinforced during independent training.

To improve the quality of Practical session, military equipment, material support and simulation tools are used.

Features of the methodology for conducting classes:

when conducting group classes:

The most appropriate form of training is frontal (all students or a significant part of them, under the supervision of the teacher, perform the same task (act in a certain position) at the same time);

during group classes, a combination of methods is used - explanatory and lecture (presentation of new educational material, its discussion is organised, and then control of students' learning of this material is carried out by means of a questionnaire that helps to consolidate it) and reproductive method (the main feature of which is the reproduction and repetition of the method of activity on situational tasks of the teacher, including actual combat episodes based on the experience of war with the Russian Federation. In the course of implementing this method, students solve similar tactical tasks, fly-by-flights, assess the situation, make decisions on a similar situation, set tasks for units, etc. The use of this method is the first step in the acquisition of skills and command skills by students).

during group exercises (on the ground):

problem-based learning is applied using research methodological techniques;

The essence of the research method is to organise the search, creative activity of students to solve new problems for them. For example, during group exercises and tactical training, a complex, non-standard situation is created, the terrain is unfamiliar, the enemy uses unexpected (new) methods of combat or uses new weapons. Students are put in a situation where they are required to make an unconventional, original decision to fight, to use a new way of using weapons and military equipment, a new way of fighting to counter the enemy. Students must solve problematic tasks on their own, without the support of the instructor.

During the classes, use active forms of training, such as situational reenactments (at each class) of possible actions or actions that took place during the war with the Russian Federation.

Group exercises contain an element of transition to practical actions with the division of the group into 2 subgroups. The first subgroup consists of students who work as unit commanders and commanders of attached units (tank, grenade launcher, anti-tank, anti-aircraft missile, reconnaissance, etc.). The second subgroup consists of students who perform tactical actions in positions in accordance with the organisational and staffing structure of the main combat unit and attached units. After practicing the issues

assigned to the class, the groups are replaced. This type of training is designed to increase the complexity of organising and conducting combat by involving teams (students) from training groups of other specialisations (branches of the armed forces and special forces).

during Practical session:

the mastery of the theoretical provisions of the topic is organised through the individual performance of specially designed tasks, which contributes to the development of cadets' skills and abilities to apply theoretical provisions in practice. Practical classes should be aimed at consolidating and deepening the knowledge gained by students in lectures and group classes, as well as during independent work, and developing their skills in solving practical problems.

Information and methodological support:

1. Combat Regulations of the Mechanised and Tank Forces of the Land Forces of the Armed Forces of Ukraine. Part III. Platoon, squad, crew: Command of the Land Forces of the Armed Forces of Ukraine. Kyiv - 2016.
2. Combat Regulations of the Mechanised and Tank Forces of the Land Forces of the Armed Forces of Ukraine. Part II. Battalion, company: Command of the Land Forces of the Armed Forces of Ukraine. Kyiv - 2016.
3. Tactics of Marine Corps units. Study guide - Odesa: Military Academy Publishing House (Odesa), 2019. 289 p.
4. The small unit tactics smartbook, 2nd Rev. Handbook), 2nd Rev. Ed., 2015.
5. Guidelines for Action in Urban Areas - Zh.: Central Operations Centre and the Ministry of Defence of Ukraine together with the Main Training Department of the Armed Forces of Ukraine, 2019. - 248 p.
6. Guidelines for Action at Night and in Limited Vision Conditions - K.: MDU of the Armed Forces of Ukraine, jointly with the Central Operations and Maintenance Center of the Armed Forces of Ukraine and the NAC of the NASS, 2019. - 98 p.
7. Course on Shooting from Small Arms and Combat Vehicles -Kyiv: General Staff of the Armed Forces of Ukraine, 2018. 367 p.
8. Order of the Commander-in-Chief of the Armed Forces of Ukraine of 11.09.2020 No. 140 "On Approval of the Temporary Procedure for the Processing of Operational (Combat) Documents", -K.: General Staff of the Armed Forces of Ukraine, 2020.
9. Information-analytical (reference) materials on the use of military units of the Armed Forces of Ukraine, other military formations and illegal military formations during the anti-terrorist operation in Ukraine. Appendix 1.
10. Methodological Recommendations on the Use of Troops (Forces) (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART I.

11. Experience in the use of the Armed Forces of the leading countries of the world (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine.
12. Tactical and Technical Characteristics of WME Samples and Tactics of Staff Units' Actions on Them (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART I.
13. Methodological Recommendations on the Use of Troops (Forces) (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART II.
14. Methodological recommendations for the preparation and conduct of counter-ambush actions by units during special operations.
15. Methodological recommendations for the protection of troops and military facilities in permanent deployment and in areas of assigned missions.
16. Recommendations for strengthening the protection of military convoys from the use of landmines.
17. Experience in the use of the Armed Forces of the leading countries of the world (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART III.
18. Information and reference material on the peculiarities of combat operations in the forest: survival and combat tactics. Combat Training Directorate of the Land Forces Command of the Armed Forces of Ukraine - K.: CSR of the Armed Forces of Ukraine, 2017.
19. Preparation for combat operations in urban areas (manual) - Odesa: Military Academy (Odesa).
20. Methodological manual on the organisation and implementation of security and defence, daily activities of military units (subdivisions) of the Armed Forces of Ukraine located in base camps - K.: General Staff of the Armed Forces of Ukraine.
21. Information and analytical materials on the use of military units in the Russian-Ukrainian war.
22. Fire control of units: a handbook. -Kyiv: Military Academy, 2020. - 72 p.
23. Methodological materials. Defence in a city (settlement). Land Forces Command, April 2023.
24. Information bulletin. The enemy's book. A collection of recommendations to the participants of the IEE. May 2023.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, independent study individual tasks and their rooms, control measures	Total hours	Among them.		Semester numbers, section numbers, topics and classes, their names, study questions
			Audit hours	Independent works	
1	2	3	4	5	6
Topic 1: Combat use of a marine platoon.					
1.	Lecture	2	2		Session 1: Combat use of a platoon. 1. The purpose, organisational structure, weapons and equipment of a marine platoon. 2. Combat capabilities of a platoon of marines.
2.	Seminar	2	2		Session 2: Combat use of a platoon. 1. The purpose, organisational structure, weapons and equipment of a marine platoon. 2. Combat capabilities of a platoon of marines.
Total for the topic		4	4		
Topic 2. Management of a platoon of marines.					
3.	Lecture	2	2		Session 1. Platoon management. 1. Sequence and content of the platoon leader's work on preparing for combat in accordance with the Tactical Manual. 2. Platoon management during combat missions.
4.	Group session	2	2		Session 2: Preparing a working map for work and the basic rules for maintaining it. 1. Prepare a working map for work. 2. Basic rules for maintaining a working map. Using the Nettle software to display the current situation.
5.	Seminar	2	2		Class 3. Platoon management. 1. Sequence and content of the platoon leader's work in preparation for combat in accordance with the Tactical Manual.

					2. Platoon management during combat missions. 3. Preparation of the working map for work and basic rules for its maintenance. Using the Kropyva software to display the current situation.
Total for the topic		6	6		
Topic 3: A Marine platoon on the march and in position.					
6.	Lecture	2	2		Session 1: Platoon on the march and in marching guard. 1. Place and task of the platoon on the march. 2. Sequence and content of the platoon leader's work in preparation for the march according to the Tactical Manual. 3. Platoon actions during the march as part of the main force and in the marching guard.
7.	Group session	2	2		Session 2: Platoon on the march in special conditions. 1. Peculiarities of preparing and carrying out a march at night. 2. Peculiarities of preparing and carrying out a march in winter. 3. Peculiarities of preparation and implementation of the march in the mountains. 4. 4. Risks affecting the march (urbanised, forested areas).
8.	Group session	2	2		Session 3: Counter-insurgency actions based on the experience of the Russian-Ukrainian war. 1. Tactics of enemy units conducting an ambush. 2. Procedure of actions of the unit that was ambushed.
9.	Lecture	2	2		Exercise 4. Platoon in position and on guard duty. 1. General provisions. 2. The sequence and content of the platoon leader's work during the organisation of the position and sentry post in accordance with the Tactical Manual. 3. Platoon actions during positioning and guard duty, taking into account the experience of the Russian-Ukrainian war.
10.	Seminar	2	2		Exercise 5. A platoon on the march and in position. 1. Platoon on the march and in marching guard. 2. A platoon on the march in special conditions. 3. Countermeasures based on the experience of the Russian-Ukrainian war. 4. 4. Platoon in position and on guard duty.
11.	Tactical and drill training during the	5	4	1	<i>Preparing for tactical and drill training.</i> 1. Prepare radio stations for operation, check radio data and signal table with company commander's data. 2. Study of warning signals, platoon control during actions in marching guard, the procedure for transmitting

	day				signals, commands and setting tasks by radio.
					<p>Exercise 6. Platoon in marching guard.</p> <p>1. Formation of a platoon column for actions in the main marching outpost, techniques for inspecting the terrain and local objects.</p> <p>2. Platoon actions in the event of an enemy air raid, the discovery of minefields and contaminated terrain, and an attempt to block the convoy by the local population.</p> <p>3. Platoon actions when meeting a small group of enemy, equal and superior enemy. Use of the Kropyva software.</p>
12.	Tactical and drill training at night	4	4		<p>Exercise 7. Platoon in marching guard.</p> <p>1. The procedure for preparing equipment and personnel for night operations.</p> <p>2. The procedure for moving and inspecting the area and local objects.</p> <p>3. Platoon actions when meeting the enemy.</p>
13.	Tactical and drill training during the day	4	4		<p>Exercise 8. Platoon in marching guard.</p> <p>1. Platoon actions when ambushed.</p>
14.	Tactical and drill training at night	4	4		<p>Exercise 9. A platoon in position at night, taking into account the experience of the Russian-Ukrainian war.</p> <p>1. Preparation of shelters for personnel and equipment, the procedure for their camouflage, implementation of measures to protect against high-precision enemy weapons and unmanned aerial vehicles.</p> <p>2. Organisation of security and surveillance.</p> <p>3. Platoon actions on warning signals and in the event of an attack by an enemy sabotage and reconnaissance group, the use of UAVs and barrage munitions by the enemy.</p>
<p>COMPLEX TACTICAL TASK</p> <p>A platoon of marines at the main marching outpost</p>					
15.	Group exercise	5	4	1	<p><i>Receiving a combat mission and initial assessment of the situation.</i></p> <p>1. Understand the combat mission and report to the senior commander as required.</p> <p>2. Analysis of the task, initial assessment of the situation, preliminary calculation of the time required to prepare for the march.</p> <p>3. Giving instructions to subordinate units.</p>
					<p>Exercise 10. Receiving a combat task, giving a preliminary order, developing a battle plan (actions), making a decision on actions in marching guard.</p> <p>1. Receiving a combat mission.</p> <p>2. Issuing a preliminary order.</p>

					3. Developing a plan for actions in marching guard. Use of the software "Nettle".
16.	Group exercise	3	2	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> Determine the tasks of the branches and the means attached to them. Identification of interaction issues. <p>Session 11. Making a decision to march. Reporting the decision to the company commander.</p> <ol style="list-style-type: none"> Making a decision to march, recording it on a working map. Reporting the decision to the company commander. Use of the Kropyva software.
17.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> Preparation of a combat order. Preparation for the organisation of interaction, comprehensive support and management. Learn the order of the route steps. <p>Session 12. Issuing a combat order, organising interaction, command and control and comprehensive support.</p> <ol style="list-style-type: none"> Giving a combat order. Using the Kropyva software. Organisation of interaction, management and comprehensive support.
18.	Training	2		2	<p>Exercise 13. Training in the management of a platoon on the march in a virtual battlefield environment (VBS).</p> <ol style="list-style-type: none"> Formation of a platoon for operations in the main marching outpost, management of platoon actions during the inspection of the terrain of local objects on the route of movement, detection of engineering obstacles and contaminated areas of terrain. Management of platoon actions during the passage of a settlement. Management of platoon actions when meeting the enemy.
19.	Group exercise	4	4		<p>Exercise 14. Managing platoon operations in the main outpost.</p> <ol style="list-style-type: none"> Formation of a platoon for operations in the main marching outpost, management of platoon actions during the inspection of the terrain of local objects on the route of movement, detection of engineering obstacles and contaminated areas of terrain. Management of platoon actions during the passage of a settlement. Management of platoon actions when meeting the enemy. Use of "Kropyva" software.
Total for the topic		46	40	6	
Topic 4. Marine platoon in offensive combat.					
20.	Lecture	2	2		<p>Session 1: Platoon in offensive combat based on the experience of the Russian-Ukrainian war.</p> <ol style="list-style-type: none"> General provisions of the offensive.

					2. The sequence and content of the platoon leader's work in preparing for offensive combat according to . 3. Conducting offensive combat by a platoon on the move and from a position of direct contact with the enemy.
21.	Group session	2	2		Session 2: Peculiarities of preparing and conducting offensive combat by a platoon in special conditions, taking into account the experience of modern armed conflicts. 1. Features of preparation and conduct of offensive combat at night. 2. Peculiarities of preparation and conduct of offensive combat in a settlement. 3. Features of preparation and conduct of offensive combat in the forest. 4. Features of preparation and conduct of offensive combat in the mountains.
22.	Seminar	2	2		Session 3: Platoon in offensive combat based on the experience of the Russian-Ukrainian war. 1. General provisions of the offensive. 2. The sequence and content of the platoon leader's work in preparing for offensive combat in accordance with the Tactical Manual. 3. Conducting offensive combat by a platoon on the move and from a position of direct contact with the enemy. 4. Preparation and conduct of offensive combat by a platoon in special conditions.
23.	Tactical and constructional session at night	5	4	1	<i>Preparing for a tactical drill.</i> 1. Prepare the radio for operation, check the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control in offensive combat at night, the procedure for transmitting signals, commands and setting tasks by radio. Exercise 4. A platoon in the offensive during the breakthrough of a prepared enemy defence area at night. 1. Overview of the enemy's engineered AOI: familiarisation with the types of engineering obstacles, techniques and methods of overcoming them 2. Elementary training: overcoming obstacles (anti-tank ditches, pyramids, hedgehogs, MZP, barbed wire obstacles of various types), clearing trenches individually and as part of combat groups. 3. Training in a complex as part of a unit: attacking the first enemy trench with overcoming obstacles, clearing the trench, and seizing the object of attack.
24.	Tactical and constructional session during the	4	4		Exercise 5. Platoon actions during an offensive in a city (town), taking into account combat experience. 1. Moving to the object of attack in a city (settlement) under the cover of combat vehicles' fire. Use of the Kropyva software. 2. Actions as part of an assault team during an attack and destruction of the enemy in a building.

	day				
COMPLEX TACTICAL TASK					
A Marine platoon on the offensive during the breakthrough of a prepared enemy defence area					
25.	Group exercise	5	4	1	<p><i>Receiving a combat mission and initial assessment of the situation.</i></p> <ol style="list-style-type: none"> 1. Understand the combat mission and report to the senior commander as required. 2. Quick analysis of the task, initial assessment of the situation, preliminary calculation of the time required to prepare for an offensive battle. 3. Giving instructions to subordinate units.
					<p>Exercise 6. Receiving a combat mission, giving a preliminary order, developing a battle plan (actions), making a decision to engage in offensive combat.</p> <ol style="list-style-type: none"> 1. Receiving a combat mission. 2. Issuing a preliminary order. 3. Development of an offensive plan during a breakthrough of enemy defence. Use of "Nettle" software. 4. Making a decision and recording it on a working card. Reporting the decision to the company commander. Use of the software "Nettle".
26.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation of the organisation of interaction, comprehensive support and management.
					<p>Exercise 7. Reconnaissance, issuing a combat order, organising interaction, command and control, and comprehensive support.</p> <ol style="list-style-type: none"> 1. Conducting a reconnaissance. 2. Giving a combat order. Using the Kropyva software. 3. Organisation of interaction, management and comprehensive support.
27.	Training	2		2	<p>Exercise 8. Training in platoon management in offensive combat in a virtual battle environment (VBS).</p> <ol style="list-style-type: none"> 1. Check the platoon's readiness for combat. 2. Control of the platoon during the advancement and deployment in combat order, during the attack of the front edge of enemy defence and the capture of the object of attack. 3. Platoon management in combat in the depths of enemy defence, repelling counterattacks, and pursuit.
28.	Group exercise	4	4		<p>Exercise 9. Management of platoon actions during the breakthrough of a prepared enemy defence area.</p>

					<ol style="list-style-type: none"> 1. Check the platoon's readiness for combat. 2. Management of the platoon during the advance, deployment in combat order, attacking the front edge of enemy defence, clearing the trench and seizing the object of attack. Use of the Kropyva software. 3. Platoon management during combat in the depths of enemy defence, repelling counterattacks, and pursuit.
Total for the topic		31	26	5	
Topic 5. A Marine platoon in defensive combat.					
29.	Lecture	2	2		Session 1: Platoon in defensive combat based on the experience of the Russian-Ukrainian war. <ol style="list-style-type: none"> 1. General provisions of defence. 2. The sequence and content of the platoon leader's work in preparing for defensive combat in accordance with the Tactical Manual. 3. Platoon defensive combat.
30.	Group session	2	2		Session 2: Peculiarities of preparing and conducting defensive combat in special conditions, taking into account the experience of modern armed conflicts. <ol style="list-style-type: none"> 1. Features of preparation and conduct of defensive combat at night. 2. Peculiarities of preparation and conduct of defensive combat in a settlement. 3. Features of preparation and conduct of defensive combat in the forest. 4. Features of preparation and conduct of defensive combat in the mountains.
31.	Seminar	2	2		Session 3: Platoon in defensive combat based on the experience of the Russian-Ukrainian war. <ol style="list-style-type: none"> 1. General provisions of defence. 2. The sequence and content of the platoon leader's work in preparing for defensive combat in accordance with the Tactical Manual. 3. Platoon defensive combat. 4. Preparation and conduct of defensive combat in special conditions.
32.	Tactical and drill training at night	5	4	1	<i>Preparing for a tactical drill.</i> <ol style="list-style-type: none"> 1. Prepare the radio for operation, check the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control in defensive combat at night, the procedure for transmitting signals, commands and setting tasks by radio.
					Exercise 4. A platoon during a defensive battle at night. <ol style="list-style-type: none"> 1. Preparing a platoon for defensive combat at night. 2. Observation of the enemy using night vision devices and lighting equipment, destruction of the attacking enemy. 3. Platoon actions when the enemy bypasses a stronghold.

33.	Tactical and constructional session during the day	4	4		<p>Exercise 5. Platoon's transition to defence in direct contact with the enemy in a settlement. Defensive combat (based on the experience of the Russian-Ukrainian war).</p> <ol style="list-style-type: none"> 1. Capture a building (advantageous position) by a platoon, prepare for a circular defence. 2. Destruction of the enemy on the outskirts of the AOP. Use of "Kropyva" software. 3. Defeat an enemy attempting to capture a building. Conducting a defensive battle for a building in a complete encirclement. 4. Resumption of defence building after repulsing an attack on the BOP.
<p>COMPLEX TACTICAL TASK</p> <p>Transition of a Marine platoon to defence in the absence of contact with the enemy and defensive combat</p>					
34.	Group exercise	5	4	1	<p><i>Receiving a combat mission and initial assessment of the situation.</i></p> <ol style="list-style-type: none"> 1. Understand the combat mission and report to the senior commander as required. 2. Quick analysis of the task, initial assessment of the situation, preliminary calculation of the time required to prepare for a defensive battle. 3. Giving instructions to subordinate units.
					<p>Exercise 6. Receiving a combat mission, giving a preliminary order, developing a battle plan (actions), making a decision to engage in defensive combat.</p> <ol style="list-style-type: none"> 1. Receiving a combat mission. 2. Issuing a preliminary order. 3. Developing a plan for a defensive battle. Use of the software "Nettle". 4. Making a decision and recording it on a working card. Reporting the decision to the company commander. Use of the software "Nettle".
35.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, comprehensive support and management. 3. Study the procedure for drawing up a platoon strongpoint diagram.
					<p>Exercise 7. Reconnaissance, issuing a combat order, occupying a stronghold, organising interaction, command and control, and comprehensive support.</p> <ol style="list-style-type: none"> 1. Conducting a reconnaissance. 2. Giving a combat order. Using the Kropyva software. 3. Platoon session of a stronghold. 4. Organisation of interaction, management and comprehensive support. 5. Drawing up a diagram of the stronghold.

36.	Training	2		2	<p>Exercise 8. Training in platoon management in defensive combat in a virtual battle environment (VBS).</p> <ol style="list-style-type: none"> 1. Managing a platoon with the start of fire training, repelling an enemy attack. 2. Platoon management in the destruction of the enemy bypassing the platoon's stronghold. 3. Platoon management during withdrawal and retreat.
37.	Group exercise	4	4		<p>Exercise 9. Platoon management in defensive combat.</p> <ol style="list-style-type: none"> 1. Management of the platoon with the beginning of fire training, repulsion of the enemy attack. Use of the Kropyva software. 2. Platoon management in the destruction of the enemy bypassing the platoon's stronghold. 3. Platoon management during withdrawal and retreat.
Total for the topic		31	26	5	
Topic 14. Methodological training of the marine unit commander.					
38.	Practical session	5	4	1	<p><i>Study of the training standard "Platoon during assault operations in the forest belt".</i></p> <ol style="list-style-type: none"> 1. Developing a plan for a tactical and formation exercise with a platoon to practice the training standard "Platoon during assault operations in a forest belt".
					<p>Session 1: Methods of conducting a tactical formation exercise with a platoon to practice the training standard "Platoon during assault operations in a forest belt".</p> <ol style="list-style-type: none"> 1. Methods of conducting the introductory part of the class. 2. Methods of conducting the main part of the session. 3. Methods of conducting the final part of the class.
39.	Practical session	5	4	1	<p><i>Study of the training standard "Platoon in Defensive Combat in Urban Areas".</i></p> <ol style="list-style-type: none"> 1. Developing a plan for a tactical and formation exercise with a platoon to practice the training standard "Platoon in Defensive Combat in Urban Areas".
					<p>Exercise 2. Methodology for conducting a tactical formation exercise with a platoon to practice the training standard "Platoon in Defensive Combat in Urban Areas".</p> <ol style="list-style-type: none"> 1. Methods of conducting the introductory part of the class. 2. Methods of conducting the main part of the session. 3. Methods of conducting the final part of the class.
Total for the topic		10	8	2	
Topic 6. Preparing a Marine platoon for amphibious operations.					
40.	Lecture	2	2		<p>Exercise 1: Preparing a Marine platoon for amphibious operations.</p> <ol style="list-style-type: none"> 1. General provisions of the landing of amphibious assault.

					2. Preparing a platoon for amphibious operations. 3. Landing on the ship.
41.	Seminar	2	2		Exercise 2: Preparing a Marine platoon for amphibious operations. 1. General provisions of the landing of amphibious assault. 2. Preparing a platoon for amphibious operations. 3. Landing on the ship. 4. 4. Crossing the sea.
Total for the topic		4	4		
Topic 7. A Marine platoon in offensive combat during amphibious assault.					
42.	Lecture	2	2		Exercise 1: A platoon of marines in offensive combat during a landing. 1. The battle for the landing. 2. Platoon combat operations on the beach. 3. Landing of amphibious assault in special conditions.
43.	Seminar	2	2		Exercise 2: A Marine platoon in offensive combat during a landing. 1. The battle for the landing. 2. Platoon combat operations on the beach. 3. Landing of amphibious assault in special conditions. 4. Return landing of airborne units.
44.	Tactical and constructional session during the day	5	4	1	<i>Preparing for a tactical drill.</i> 1. Prepare the radio station for operation, check the radio data and the signal table with the company commander's data. 2. Study of warning signals, platoon control during landing and capture (destruction) of an object behind enemy lines, the procedure for transmitting signals, commands and setting tasks by radio.
					Exercise 3: Actions of a Marine platoon in an offensive battle during a landing. 1. Landing from airborne vehicles on the beach. Moving to the line of attack with overcoming anti-landing, minefields and natural obstacles. Hastening and deployment in combat order. 2. Attack of the front line of defence, destruction of enemy manpower and firepower, and capture of the object of attack. 3. Development of an offensive in depth. Repulsing an enemy counterattack. Moving the platoon to the assembly point after completing the task.
45.	Tactical and constructional	4	4		Exercise 4. Actions of a Marine platoon during an amphibious landing during an amphibious landing at night.

	session at night				<ol style="list-style-type: none"> 1. Disembarkation from fast-moving airborne vehicles, deployment in combat formation, and movement forward. 2. Attack, destruction of the enemy on the move. Capturing a favourable position. 3. Conducting combat to cover the actions of barrier groups, navigation and hydrographic support and correction posts. Ensuring the landing of the main landing force.
COMPLEX TACTICAL TASK A Marine platoon in an offensive battle during a landing					
46.	Group exercise	5	4	1	<i>Analysis of the task received by the platoon commander and assessment of the situation.</i> <ol style="list-style-type: none"> 1. Understand the task and assess the situation. 2. Preparation of the working map, drawing the initial situation.
					Exercise 5. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. <ol style="list-style-type: none"> 1. Analyse the task, assess the situation, and calculate the time. 2. Giving a preliminary combat order (instructions for preparing for the amphibious landing). 3. Developing a plan of action for the amphibious assault.
47.	Group exercise	5	4	1	<i>Preparing for a group exercise.</i> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, comprehensive support and management.
					Session 6. Giving a combat order, organising interaction, command and control and comprehensive support. <ol style="list-style-type: none"> 1. Giving a combat order. 2. Organisation of interaction, management and comprehensive support.
48.	Training	2		2	Exercise 7. Training in platoon management during amphibious assault in a virtual battlefield environment (VBS). <ol style="list-style-type: none"> 1. Management of platoon actions during disembarkation from amphibious vehicles ashore, advancement to the line of attack with overcoming anti-landing, minefields and natural obstacles, deployment in combat order, clarification of tasks on the ground, and advancement to the object of attack. 2. Management of platoon actions during the attack, capture and destruction of an enemy object, and the exit to the company assembly point.
49.	Group exercise	4	4		Exercise 8. Command of a Marine platoon in offensive combat during amphibious assault. <ol style="list-style-type: none"> 1. Landing from airborne vehicles on the beach. Moving to the line of attack with overcoming anti-landing, minefields and natural obstacles. Hastening and deployment in combat order.

					2. Attack of the front line of defence, destruction of enemy manpower and firepower, and capture of the object of attack. 3. Development of an offensive in depth. Repulsing an enemy counterattack. Moving the platoon to the assembly point after completing the task.
Total for the topic		29	24	5	
Topic 8: Airborne assault platoon during airborne assault operations.					
50.	Lecture	2	2		Exercise 1: An air assault platoon conducting air assault operations. 1. General provisions of airborne assault operations. 2. The sequence and content of the platoon leader's work in preparation for airborne assault operations, in accordance with the unit management procedure (TLP). 3. Conducting airborne assault operations.
51.	Seminar	2	2		Exercise 2: An air assault platoon conducting air assault operations. 1. General provisions of airborne assault operations. 2. The sequence and content of the platoon leader's work in preparation for airborne assault operations, in accordance with the unit management procedure (TLP). 3. Conducting airborne assault operations.
52.	Tactical and drill training during the day	5	4	1	<i>Preparing for a tactical drill.</i> 1. Prepare the radio for operation, check the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control during airborne assault operations, the procedure for transmitting signals, commands and setting tasks by radio.
					Exercise 3: An airborne assault platoon conducting air assault operations. 1. Disembarkation of personnel from helicopters, movement to the object of attack, deployment in combat order. 2. Attack, capture and destruction of an enemy object. 3. Go to the collection point, board the helicopters.
53.	Tactical and drill training at night	4	4		Exercise 4. An airborne assault platoon conducting air assault operations at night. 1. Disembarking personnel from helicopters, moving to the object of attack, deploying in combat order. 2. Attack, capture and destruction of an enemy object. 3. Go to the collection point, board the helicopters.
COMPLEX TACTICAL TASK					
An airborne assault platoon during airborne assault operations					
54.	Group	5	4	1	<i>Analysis of the task received by the platoon commander and assessment of the situation.</i>

	exercise				<ol style="list-style-type: none"> 1. Understand the task and assess the situation. 2. Preparation of the working map, drawing the initial situation.
					<p>Exercise 5. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan.</p> <ol style="list-style-type: none"> 1. Analyse the task, assess the situation, and calculate the time. 2. Issuing a preliminary combat order (instructions for preparing for airborne assault operations). 3. Developing a plan for airborne assault operations.
55.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, comprehensive support and management.
					<p>Session 6. Giving a combat order, organising interaction, command and control and comprehensive support.</p> <ol style="list-style-type: none"> 1. Giving a combat order. 2. Organisation of interaction, management and comprehensive support.
56.	Group exercise	4	4		<p>Exercise 7. Controlling the actions of an airborne assault platoon during airborne assault operations.</p> <ol style="list-style-type: none"> 1. Management of platoon actions after disembarkation of personnel from helicopters, movement to the object of attack, and deployment in combat order. 2. Management of platoon actions during an attack, capture and destruction of an enemy object, going to the assembly point and boarding helicopters.
Total for the topic		27	24	3	
Topic 14. Methodological training of a marine unit commander.					
57.	Practical session	5	4	1	<p><i>Study of the training standard "Platoon in the offensive when capturing (destroying) an object behind enemy lines".</i></p> <ol style="list-style-type: none"> 1. Developing a plan for a tactical drill with a squad to practice the training standard "Platoon in the offensive when capturing (destroying) an object behind enemy lines".
					<p>Exercise 3. Methodology for conducting a tactical formation exercise with a platoon to practice the training standard "Platoon in the offensive when capturing (destroying) an object behind enemy lines".</p> <ol style="list-style-type: none"> 1. Methods of conducting the introductory part of the class. 2. Methods of conducting the main part of the session. 3. Methods of conducting the final part of the class.
58.	Lecture	2	2		<p>Exercise 4. Preparation and methodology for conducting combat firing by units.</p> <ol style="list-style-type: none"> 1. Preparation of combat firing of units.

					2. Conducting combat firing of units. 3. Assessment of the unit's combat firing.
59.	Practical session	2	2		Exercise 5. Developing a plan for the combat firing of a squad "Squad in defensive combat". 1. Development of the textual and graphical part of the squad's combat firing plan. 2. Development of a target situation scheme, a target situation management scheme. 4. Study of the methodology for conducting combat firing of the squad "Squad in defensive combat".
60.	Practical session	7	6	1	<i>Preparing for a practical session.</i> 1. Development of the textual and graphical part of the squad's combat firing plan. 2. Development of a target situation scheme, a target situation management scheme. 3. Study of the methodology for conducting combat firing of the squad "Squad in defensive combat".
					Exercise 6. Combat firing of a squad "Squad in defensive combat". (training questions according to the live-fire plan).
Total for the topic		16	14	2	
Topic 9: A Marine platoon during raid operations.					
61.	Lecture	2	2		Exercise 1: A platoon of marines during raid operations. 1. General provisions of raid operations. 2. The sequence and content of the platoon leader's work in preparation for raid operations, in accordance with the unit management procedure (TLP). 3. Platoon actions in a raid.
62.	Seminar	2	2		Exercise 2: A Marine platoon during raid operations. 1. General provisions of raid operations. 2. The sequence and content of the platoon leader's work in preparation for raid operations, in accordance with the unit management procedure (TLP). 3. Platoon actions in a raid.
63.	Tactical- drill during the day	5	4	1	<i>Preparing for a tactical drill.</i> 1. Prepare the radio for operation, check the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control during raid operations, the procedure for transmitting signals, commands and setting tasks by radio.
					Exercise 3: Platoon in combat reconnaissance alert. 1. Formation of a platoon for action in combat reconnaissance, advancement and conduct of reconnaissance, and reporting of reconnaissance results. 2. Platoon actions during the capture and destruction of an important enemy object.

COMPLEX TACTICAL TASK					
A Marine platoon in combat reconnaissance observation during raid operations					
64.	Group exercise	5	4	1	<p><i>Analysis of the task received by the platoon commander and assessment of the situation.</i></p> <ol style="list-style-type: none"> 1. Understand the task and assess the situation. 2. Preparation of the working map, drawing the initial situation.
					<p>Exercise 4. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan.</p> <ol style="list-style-type: none"> 1. Analyse the task, assess the situation, and calculate the time. 2. Giving a preliminary combat order (instructions for preparing for actions in combat reconnaissance range). 3. Developing a plan of action in combat reconnaissance observation during raid operations.
65.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> 1. Determine the tasks of the branches and the means attached to them. 2. Identification of interaction issues.
					<p>Activity 5. Completing the formulation of the decision. Reporting the decision to the company commander.</p> <ol style="list-style-type: none"> 1. Finalise the decision and draw up the decision on a working card. 2. Report the decision to the company commander.
66.	Group exercise	5	4	1	<p><i>Preparing for a group exercise.</i></p> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, comprehensive support and management.
					<p>Session 6. Giving a combat order, organising interaction, command and control and comprehensive support.</p> <ol style="list-style-type: none"> 1. Giving a combat order. 2. Organisation of interaction, management and comprehensive support.
67.	Training	2		2	<p>Exercise 7. Training in the management of a combat reconnaissance patrol in a virtual battle environment (VBS).</p> <ol style="list-style-type: none"> 1. Building a platoon to operate in combat reconnaissance. 2. Management of platoon actions during reconnaissance. 3. Management of platoon actions during the capture and destruction of an important enemy object.
68.	Group exercise	4	4		<p>Exercise 8. Management of platoon actions in combat reconnaissance observation during raid operations.</p> <ol style="list-style-type: none"> 1. Building a platoon to operate in combat reconnaissance. 2. Management of platoon actions during reconnaissance.

					3. Management of platoon actions during the capture and destruction of an important enemy object.
Total for the topic		30	24	6	
Topic 10. A Marine platoon performing tasks in stabilisation operations.					
69.	Lecture	2	2		Session 1: A Marine platoon performing tasks in stabilisation operations based on combat experience. 1. General provisions of stabilisation actions. 2. Peculiarities of preparation and performance of tasks by a platoon during service at a checkpoint. 3. Peculiarities of preparation and execution of tasks by a platoon during convoy escort.
70.	Group session	2	2		Exercise 2: A Marine platoon conducting search and destroy operations. 1. Sequence and content of the platoon commander's work on preparation for search and attack operations in accordance with the Tactical Manual. 2. Conducting search and strike operations.
71.	Seminar	2	2		Session 3: A Marine platoon performing tasks in stabilisation operations based on the experience of the Russian-Ukrainian war. 1. General provisions of stabilisation actions. 2. Peculiarities of preparation and performance of tasks by a platoon during service at a checkpoint. 3. Peculiarities of preparation and execution of tasks by a platoon during convoy escort. 4. Peculiarities of preparation and conduct of search and strike operations.
72.	Tactical and constructional session during the day	4	4		Exercise 4. A platoon performing tasks at a checkpoint, taking into account the experience of the Russian-Ukrainian war. 1. Organisation of surveillance and fire systems. Use of the Kropyva software. 2. The procedure for inspecting people and vehicles. 3. Procedure for repelling an enemy attack.
73.	Tactical and constructional session during the day	4	4		Exercise 5. A platoon conducting search-and-strike operations based on the experience of the Russian-Ukrainian war. 1. Conducting search operations. Using the Kropyva software. 2. Destroy the detected enemy.
Total for the topic		14	14		
Topic 14. Methodological training of a marine unit commander.					
74.	Practical session	2	2		Exercise 7. Developing a plan for a tactical formation exercise with a platoon to practice the training standard "Platoon in Assault Operations". 1. Study the training standard "Platoon in Assault Operations". 2. Developing a plan for a tactical and formation exercise with a unit to practice the training standard

				"Platoon in Assault Operations".
75.	Practical session	4	4	Exercise 8. Methods of conducting a tactical formation exercise with a platoon to practice the training standard "Platoon in assault operations". 1. Methods of conducting the introductory part of the class. 2. Methods of conducting the main part of the session. 3. Methods of conducting the final part of the class.
76.	Lecture	2	2	Exercise 9. Preparation and methodology for conducting platoon combat firing. 1. Preparation of platoon firing. 2. Conducting platoon firing exercises. 3. Evaluation of platoon combat firing.
77.	Practical session	2	2	Exercise 10. Developing a plan for a platoon combat shooting exercise "Platoon in Offensive Battle". 1. Development of the textual and graphical part of the platoon combat firing plan. 2. Development of a target situation scheme, a target situation management scheme.
78.	Practical session	6	6	Exercise 11. Platoon Combat Shooting "Platoon in Offensive Battle". (training questions according to the plan of live fire)
Total for the topic		16	16	
Topic 11. Combat use of regular and attached units of a company tactical group.				
79.	Lecture	2	2	Class 1: Combat use of a Marine company. 1. Purpose, organisational structure, weapons and equipment of a marine company. 2. Combat capabilities of a marine company in various types of combat.
80.	Group session	2	2	Session 2: Company (battalion) CSP. 1. The place of the company (battalion)'s KSP in different types of combat, taking into account the experience of the Russian-Ukrainian war: - composition; - place of deployment of the SPC in different types of combat (actions); - the procedure for equipping the CSP; - the procedure for moving; - Duty at the control room; - Organisation of monitoring and control. 2. Combat documents developed and maintained at the CPC. 3. Management of a company (battalion) in various types of combat (actions).
81.	Lecture	2	2	Session 3: Combat use of artillery units based on the experience of the Russian-Ukrainian war. 1. Purpose, composition and tasks of artillery in different types of combat. 2. Fire damage to the enemy in defence and offence. Types of artillery fire and their characteristics. 3. Combat order of artillery units and their firing capabilities.

82.	Group session	2	2		Class 4. Fundamentals of the use of aviation of the Land Forces. 1. General provisions. 2. Peculiarities of interaction with aviation units, guidance and targeting of helicopter crews at ground targets.
Total for the topic		8	8		
Topic 12: Fundamentals of combat employment of air defence units.					
83.	Group session	2	2		Class 1: Fundamentals of combat employment of air defence units. 1. General provisions for air defence of units. 2. Purpose, composition, and combat capabilities of air defence units.
84.	Group session	2	2		Class 2: Actions of anti-aircraft missile and anti-aircraft artillery units in the main types of combat (tactical actions). 1. Combat orders and use when covering units from the air enemy on the march and in position. 2. Combat orders and use when covering units from the air enemy in defensive and offensive combat.
Total for the topic		4	4		
Topic 13: A Marine platoon in assault operations based on the experience of the Russian-Ukrainian war.					
85.	Lecture	2	2		Session 1: Experience of platoon use in offensive combat during the Russian-Ukrainian war. 1. Characteristic features of offensive combat according to the experience of the Russian-Ukrainian war. 2. Experience in platoon assault operations.
86.	Group session	2	2		Exercise 2: A platoon in the offensive during assault operations. 1. Tasks and structure of the assault group. 1. Preparation of assault actions as part of an assault group (platoon, squad). 2. Conducting assault operations.
COMPLEX TACTICAL TASK					
A Marine platoon on the offensive during a breakthrough of prepared enemy defences					
87.	Group exercise	5	4	1	<i>Receiving a combat mission and initial assessment of the situation.</i> 1. Understand the combat mission and report to the senior commander as required. 2. Quick analysis of the task, initial assessment of the situation, preliminary calculation of the time required to prepare for assault operations in the forest-steppe area. 3. Giving instructions to subordinate units.
					Session 3: Receiving a combat task, giving a preliminary order, developing a plan, making a decision to conduct assault operations in the forest-steppe area. 1. Receiving a combat mission. 2. Issuing a preliminary order.

					3. Development of a plan for conducting assault operations in the forest-steppe area. Use of the software "Nettle". 4. Making a decision to conduct assault operations in a forest-steppe area. Using the Kropyva software.
88.	Group exercise	5	4	1	<i>Preparing for a group exercise.</i> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, comprehensive support and management.
					Class 4. Reconnaissance. Giving a combat order. Organisation of interaction, management and comprehensive support. 1. Reconnaissance. 2. Giving a combat order. Using the Kropyva software. 3. Organisation of interaction, management and comprehensive support.
89.	Practical session	2	2		Exercise 5. Training in unit and fire control on a terrain mock-up during assault operations in a forest-steppe area. 1. Drawing an offensive battle. 2. Solving situational tasks in offensive combat.
90.	Group exercise	4	4		Exercise 6. Managing the actions of a marine platoon during assault operations in forest-steppe terrain. 1. Advance the assault team to the object of attack. 2. Assault actions to clear the forest plantation, seize the object of attack. 3. The platoon moves to the defensive at the designated line.
Total for the topic		20	18	2	
Control measure		6	6		Examination
Total for the educational component		300	262	38	

BC 2 Combat use of combat vehicle weapons and fire training

component name

The general objective of the educational programme component:

The main purpose of teaching the discipline "Combat use of weapons of combat vehicles and fire training" is to: training of a tactical-level military management specialist capable of competently and fully using the capabilities of combat vehicles, small arms and grenade launchers, who has a firm knowledge of the structure and rules of operation, knows how to prepare them for firing and engage targets with fire.

As a result of studying the discipline, students should:

to know:

structure, tactical and technical characteristics of weapons and military equipment of airborne assault (airborne, parachute, marine) units, rules of fire from standard weapons

requirements of the Small Arms and Combat Vehicle Armament Course for the organisation of firearms training

technical characteristics and operating procedures for regular small arms

requirements of the guiding documents on the storage and operation of regular small arms

rules for the preparation and maintenance of technical documentation of the unit

technical characteristics and operating procedures for weapons and military equipment of the armies of NATO member states and the enemy

be able to:

organise and carry out the correct operation, maintenance, storage and preparation of small arms for combat use

bring small arms to normal combat, perform training exercises with regular weapons and monitor compliance with safety measures during classes, firing, and exercises

organise and carry out the proper operation, maintenance, storage and preparation of regular small arms for combat use

Identify and eliminate basic malfunctions of standard small arms

to ensure the proper operation, maintenance, storage and preparation of weapons and military equipment of NATO and adversary armies based on knowledge of their basic technical characteristics.

Organisational and methodological guidelines:

The Firearms Training course is conducted as part of a training platoon in practical exercises. Classes are held at firing ranges and sites. Before conducting practical exercises, it is mandatory to study safety measures and clarify (refine) them before the start of the exercise. Personnel arrive for Practical session in full field equipment with weapons.

Military equipment and supplies are used to improve the quality of Practical session.

Features of the methodology for conducting classes:

During Practical session, students learn the purpose, combat properties and structure of weapons, ammunition, aiming and observation devices; the basics and rules of shooting.

During firearms training, students develop and improve their skills in handling weapons (firing techniques), reconnaissance of targets by observation, determining their range and targeting.

When performing firing exercises, the training platoon is divided into subgroups and the training is conducted in groups of 12-15 people under the guidance of instructors. During these exercises, students must perform firing exercises with all types of weapons available to the platoon, and must practice the following issues at the training sites: training in preparation for firing from various positions (standing, kneeling, lying on the stomach, on the side, on the back, on squatting), training in binocular aiming, training in rapid reloading of weapons, training in incomplete disassembly and assembly of weapons, elimination of delays in firing, loading the magazine, training in throwing hand grenades from behind cover with the right and left hands, training in determining initial firing positions and solving fire missions. During the firing exercises, elements of psychological influence on the trainees should be applied, such as firing blank ammunition behind the firing person and using explosive packages at safe distances.

Information and methodological support:

9. Methodological manual on firearms training on the handling and use of small arms, approved by the NGC-GC
10. Methods of fire training of mechanised units - Kyiv: Military Publishing House, 2009.
11. Combat Statute of the Land Forces of the Armed Forces of Ukraine. Part III (platoon, squad, tank crew) - Kyiv: Military Publishing House, 2016 (Order of the Commander of the Armed Forces of Ukraine of 29 December 2010, No. 575).
12. Collection of Standards for Combat Training of the Land Forces of the Armed Forces of Ukraine - Kyiv: Military Publishing House, 2005.
13. Rifle manual. 5.45 mm Kalashnikov rifles (AK-74, AKS-74, AK-74N, AKS-74N) and 5.45 mm Kalashnikov machine guns (RPK-74, RPK-74N, RPK-74N) - Kyiv: Military Publishing House, 2006.
14. Manual on marksmanship. 7.62mm Kalashnikov machine gun PC, PCM, PCS, PCMS, PCB, PCMB, PKT - Kyiv: Military Publishing, 2005.
15. Training manual "12.7 mm heavy machine guns DShKM and NSV. Part 1, 2. 12.7 mm heavy machine gun NSV" - Lviv. NASV, 2020.
16. Guidelines on shooting. Night Sights for Small Arms and Hand Grenade Launchers - Kyiv: Military Publishing House, 2006.

17. Manual on marksmanship. Hand Grenades - Kyiv: Military Publishing House, 2006.
18. Manual of fire for the 40-mm MS-25 under-barrel grenade launcher. VKDP 7-00(01).01.
19. Operating manual for thermal imaging scope ARCHER TSA-9/75-640 АЖОА.201219.002 KE, 2016.
20. Guidelines for Operating at Night and in Low Light Conditions - Kyiv, 2019.
21. Methodological recommendations. "Tactics for the use of large-calibre machine guns". MS 7-020(03).01.
22. Methodological recommendations. "Organisation of management and improvement of the fire system in modern conditions". MS 7(3)-(01-05)03.01.
23. Methodological recommendations. "For unit commanders on the organisation of counter sniper activities on the contact line". MS 7-01(02-05)03.01.
24. Operator's Manual "ATN PVS-14 (ATN 6015) Multipurpose Night Vision Systems", 2014.
25. Operating instructions for thermal imaging monoculars HELION, TRAIL, APEX, QUANTUM by PULSAR, 2014.
26. Manual on marksmanship checking of combat, bringing small arms to normal combat, armament of combat vehicles and alignment of their sights. VKDP 7-00(01).01.
27. Manual of firearms 9mm Makarov pistol. VKDP 7-00(01).01.
28. Manual of fire of the 12.7 mm heavy machine gun DShKM-TK. VKDP 7-00(03).01.
29. Manual of fire of the 12.7 mm UTES machine gun. VKDP 7-00(01).01.
30. Guidelines for shooting night sights for small arms and hand grenade launchers. VKDP 7-00(01).01.
31. Hand grenades manual for shooting. VKDP 7-00(01).01.
32. Methodology for Preparing and Conducting Firearms Training Classes - Kyiv. NGUDP of the General Staff of the Armed Forces of Ukraine 29.04.2020. MS 7-00(01).01.
33. Small Arms and Combat Vehicle Shooting Course (SA&CS 2018). - Kyiv: Military Publishing House, 2018.
34. Methodology for the preparation and conduct of combat firing of sections (tank crews), platoons of the Airborne Assault Troops of the Armed Forces of Ukraine 2021.
35. Manual of firearms. 14.5 mm heavy machine gun Vladimirov tank (VKVT): VKDP 7-00(01).01 : Ukrainian Armed Forces Command in cooperation with the Army Research Centre and the Armed Forces Centre for Logistics. Kyiv : REC of the Armed Forces of Ukraine, 2020.

36. A guide to shooting. 30 mm automatic grenade launcher on a machine gun (AGS-17) "Flame": VKDP 7-00(01).01 : UPB of the Command of the Armed Forces of the Armed Forces of Ukraine together with the Armed Forces Research Centre and the Armed Forces Central Service Centre. Kyiv : REC of the Armed Forces of Ukraine, 2020.
37. A guide to marksmanship. 40 mm MS-25 under-barrel grenade launcher. VKDP 7-00(01).01: Command of the Armed Forces of Ukraine jointly with the Armed Forces Science Centre and the Armed Forces Central Service Centre. Kyiv: REC of the Armed Forces of Ukraine, 2019.
38. Manual on marksmanship. 73-mm easel anti-tank grenade launcher (SPG-9m): VKPD 7-00(01).01: approved by the Commander of the Armed Forces of Ukraine on 11 December 2019. Commander of the Armed Forces of Ukraine on 11 December 2019 / AFU CBRM Department in cooperation with the VA (Odesa) and the CSM. AFU. Kyiv : REC of the Armed Forces of Ukraine, 2019.
39. Product 2A42. Operating instructions. 2A42.00.000ИЭ.
40. "Infantry Fighting Vehicle BMP-2 (Guidelines for Arming)." - O.; Military Academy, 2014. - P. 112.
41. Object 765 BMP-1 Technical description and operating instructions.
42. Methodological recommendations. "Organisation of management and improvement of the fire system in modern conditions". MS 7(3)-(01-05)03.01.
43. Methodological recommendations. "For unit commanders on organising counter sniper activities on the contact line".
44. Weapons of the Russian-Ukrainian War. Reference catalogue. Central Military Scientific Directorate of the General Staff of the Armed Forces of Ukraine. October 2023.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, control measures	Quantity hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
1	2	3	4	5	6
Section 1. Structure of weapons and means of close combat.					
		20	20		Topic 1: Arming units.
1.	Group session	2	2		Session 1. 5.56 mm UAR 15 automatic rifle, 5.45 mm AK TK-8 assault rifle (7.62 mm AK TK-9 assault rifle). 1. 5.56 mm UAR 15 automatic rifle, 5.45 mm AK TK-8 assault rifle (7.62 mm AK TK-9 assault rifle) and its features. 2. Mepro-21M collimator sight. Purpose, characteristics and its general structure and the procedure for bringing small arms with collimator sights to normal combat. 3. Portable monocular night vision device AN/PVS-7, AN/PVS-14. Purpose, characteristics and procedure for use.
2.	Group session	2	2		Session 2: 30mm AGS-17 automatic grenade launcher and 40mm UAG-40 (MK19) automatic grenade launcher. 1. Purpose, combat characteristics, general structure and principle of operation of the AGS-17 and UAG-40 (MK19) grenade launchers. 2. Procedure for incomplete disassembly and assembly of the grenade launcher. 3. Alignment of the AGS-17 grenade launcher sight. Purpose and use of the Kropyva software.
3.	Group session	2	2		Class 3: SPG-9 easel mounted anti-tank grenade launcher. 1. Purpose, combat characteristics, general structure and principle of operation of the SPG-9 grenade launcher. 2. Procedure for incomplete disassembly and assembly of the grenade launcher. 3. Delays in firing and ways to eliminate them.
4.	Group session	2	2		Session 4. 12.7 mm heavy machine guns. 1. Purpose, combat characteristics, general structure and principle of operation of the NSV machine gun. The procedure for incomplete disassembly and assembly.

				<p>2. Purpose, combat characteristics, general structure of the machine gun and the principle of operation of the DShK machine gun. The procedure for incomplete disassembly and assembly.</p> <p>3. Purpose, combat characteristics, general structure and principle of operation of the Browning M2 machine gun. The procedure for incomplete disassembly and assembly.</p>
5.	Group session	2	2	<p>Class 5. Anti-tank missile system 9K111.</p> <p>1. Purpose, general structure of the 9K111 complex.</p> <p>2. Purpose, technical characteristics of the 9P135M launcher, general structure of its main parts and operating principle.</p> <p>3. Purpose, combat characteristics, general structure and principle of operation of the 9M111 (9M111-2, 9M113) anti-tank missile.</p>
6.	Group session	2	2	<p>Exercise 6. The 111-1 Stugna-P anti-tank missile system.</p> <p>1. Purpose, general structure of the 111-1 complex.</p> <p>2. Purpose, technical characteristics of the PU 111-1 launcher. Principle of operation of the complex.</p> <p>3. Purpose, combat characteristics, general structure and principle of operation of the R-2S anti-tank missile.</p>
7.	Group session	2	2	<p>Exercise 7. Anti-tank missile systems and grenade launchers of NATO countries.</p> <p>1. Purpose, general structure of the complex and the procedure for preparing for the application of NLAW</p> <p>2. The purpose, general structure and procedure for preparing to use the Carl Gustaf grenade launcher.</p> <p>3. Purpose, general structure and procedure for preparation for use of the Panzerfaust grenade launcher 3.</p>
8.	Group session	2	2	<p>Class 8. Automatic rifles and carbines of the NATO Armed Forces.</p> <p>1. Purpose, combat characteristics and general structure of the M4A1 automatic carbine.</p> <p>2. Purpose, combat characteristics and general structure of the FN FAL automatic rifle.</p> <p>3. Purpose, combat characteristics and general structure of the Diemaco C7A1 assault rifle.</p>
9.	Group session	2	2	<p>Exercise 9. Machine guns of the NATO armed forces</p> <p>1. Purpose, combat characteristics and general structure of the 5.56 mm M249 handgun.</p> <p>2. Purpose, combat capabilities and general structure of the 7.62 mm M240 single machine gun.</p> <p>3. Purpose, combat characteristics and general structure of the 7.62 mm MG 42/59 single machine gun.</p>
10.	Group session	2	2	<p>Session 10. Sniper rifles.</p> <p>1. Purpose, combat characteristics, general structure of the 7.62 mm UAR-10 rifle.</p> <p>2. Procedure for incomplete disassembly and assembly after incomplete disassembly of the 7.62 mm UAR-10 rifle.</p> <p>3. Purpose, combat characteristics of the 12.7 mm ALLIGATOR rifle...</p>
Section 2: Armament of combat vehicles.				

		8	8	Topic 1: Armament of the BTR-80 armoured personnel carrier.
11.	Group session	2	2	Class 1: BTR-80 armoured personnel carrier. 1. Armament of the BTR-80 armoured personnel carrier. Turreted machine gun mount BPU-1. 2. Ammunition of the APCS-80 and its placement in the vehicle. 3. Purpose, general structure and location of the 902B system.
12.	Group session	2	2	Class 2: Sight and observation devices of the APCS-80. 1. Composition and placement of sighting and observation devices. 2. Purpose, characteristics and general structure of the 1PZ-2 (PZ-7) sight. 3. Preparation for the operation of the 1PZ-2 sight (PZ-7). (Algorithm of gunner's actions when working with the sight).
13.	Group session	2	2	Session 3: 14.5 mm heavy machine gun KPVT. 1. Purpose, combat characteristics, general structure and principle of operation of the machine gun. 2. Procedure for incomplete disassembly and assembly after incomplete disassembly of the machine gun. 3. Delays in firing and ways to eliminate them.
14.	Group session	2	2	Exercise 4. Combat check and bringing the APCS-80 armament to normal operation. 1. Check the alignment and alignment of the machine guns and sights against a test target. 2. Procedure for checking machine gun fire and bringing the BFU to normal combat. 3. Construction of a control and verification target BTR-80.
		8	8	Topic 2. Armament of the infantry fighting vehicle BMP-2.
15.	Group session	2	2	Class 1: BMP-2 infantry fighting vehicle. 1. Purpose and combat capabilities of the BMP-2 . 2. Placement of the elements of the armament complex and airborne weapons. Ammunition and its placement in the vehicle. 3. Purpose, general structure and location of the 902B system.
16.	Group session	2	2	Session 2. 30 mm automatic gun 2A42 (ZTM-2). 1. Purpose, combat characteristics, general structure and principle of operation of the gun. 2. Procedure for incomplete disassembly and assembly of the gun. 3. The procedure for preparing the gun for firing. (Algorithm of actions of the gunner-operator).
17.	Group session	2	2	Session 3: Sights and surveillance devices of BMP-2. 1. Composition and placement of aiming and observation devices of the BMP-2 combat compartment. 2. Purpose, characteristics and general structure of the BPC-2-42 (BPC-2-42-6MT) and 1PZ-3 (7) sights and its preparation for operation. (Algorithm of actions of the gunner-operator, vehicle commander)

				3. Align the light beam of the illuminator OU-5 with the direction of the sighting axis of the BPC-2-42 sight.
18.	Group session	2	2	<p>Exercise 4. Combat check and adjustment of BMP-2 weapons to normal operation.</p> <ol style="list-style-type: none"> 1. Procedure for checking the 2A42 (ZTM-2) gun and bringing it to normal operation. 2. Procedure for checking the combat and bringing the PKT machine gun back to normal. 3. Construction of a control target BMP-2. Verification of the control target. 4. Check the alignment and alignment of the 9Sh119M1 device sighting line with the machine's PU direction.
		8	8	Topic 3: Armament of the BMP-1 infantry fighting vehicle.
19.	Group session	2	2	<p>Class 1: BMP-1 infantry fighting vehicle.</p> <ol style="list-style-type: none"> 1. Purpose and combat capabilities of the BMP-1 . 2. Placement of elements of the weapon system. Ammunition and its placement in the vehicle. 3. Guidance drives. Preparing them for combat operation.
20.	Group session	2	2	<p>Session 2. 73 mm 2A28 gun.</p> <ol style="list-style-type: none"> 1. Purpose, combat characteristics, general structure and principle of operation of the gun. 2. Incomplete disassembly and assembly after incomplete disassembly of the 2A28 gun. 3. The procedure for preparing the gun for firing (at long ranges). Elimination of deficiencies that occur during firing.
21.	Group session	2	2	<p>Session 3: 1PN22M2 sight.</p> <ol style="list-style-type: none"> 1. General structure, controls and characteristics of the 1PN 22M2 sight. 2. Preparing the 1PN22M2 sight for operation in various modes. 3. Possible malfunctions of the scope and ways to eliminate them.
22.	Group session	2	2	<p>Exercise 4. Sight alignment and combat check and bringing the twin machine gun of the BMP-1 to normal operation.</p> <ol style="list-style-type: none"> 1. Reconciliation against the reference target. 2. Procedure for checking the combat and bringing the PKT machine gun back to normal. 3. Construction of a control target BMP-1.
		4	4	Topic 4. Armament of the BTR-3 armoured personnel carrier
23.	Group session	2	2	<p>Class 1: BTR-3 armoured personnel carrier</p> <ol style="list-style-type: none"> 1. Purpose and combat capabilities of the BTR-3 armoured personnel carrier. 2. BTR-3 armament unit (ZTM-1 gun). 3. Reconciliation of the BM-3M module armament. 4. Ammunition and its placement in the vehicle. Possible malfunctions of the weapon and ways to eliminate them.

24.	Group session	2	2	<p>Class 2. Fire control system of the APCS-3 module.</p> <p>1. Purpose and composition of the fire control system.</p> <p>2. Purpose of video monitors and optoelectronic module (day and night). (Algorithm of gunner-operator action).</p> <p>3. Panoramic viewer PANORAMA-2P.</p>
Section 3. Fundamentals and rules of shooting.				
		4	4	Topic 1: Fundamentals and rules of small arms and melee fire.
25.	Group session	2	2	<p>Session 1: Rules of fire from UAR-15, AK TK-8 (AK TK-9) and 40 mm MS-25 under-barrel grenade launcher</p> <p>1. Rules of engagement with the UAR-15, AK TK-8 (7.62 mm AK TK-9 rifle).</p> <p>2. Rules of fire from the 40 mm MS-25 under-barrel grenade launcher.</p>
26.	Group session	2	2	<p>Session 2: Rules of shooting with SPG-9.</p> <p>1. Rules for assigning initial settings.</p> <p>2. Rules for firing from the SPG-9 grenade launcher at moving and emerging targets.</p> <p>3. Solving firing tasks (including using the Kropyva software).</p>
		6	6	Topic 2. Fundamentals and rules of firing weapons of combat vehicles.
27.	Group session	2	2	<p>Session 1: Rules of fire from the BTR-80 armoured personnel carrier.</p> <p>1. Rules for assigning initial settings.</p> <p>2. Rules of fire from the BTR-80 armament against moving and emerging targets.</p> <p>3. Solving fire tasks (fire correction).</p>
28.	Group session	2	2	<p>Class 2: Rules of fire from BMP-2 weapons.</p> <p>1. Rules for assigning initial settings.</p> <p>2. Rules of fire from the BMP-2 weapon at moving and emerging targets.</p> <p>3. Solving firing tasks.</p>
29.	Group session	2	2	<p>Class 3: Rules of fire from BMP-1 weapons.</p> <p>1. Rules for assigning initial settings.</p> <p>2. Rules of fire from the BMP-1 weapon at moving and emerging targets.</p> <p>3. Rules of firing from the 2A28 gun at long range.</p> <p>4. Solving firing tasks (including using the Kropyva software).</p>
Section 4. Fire control.				
		6	6	Topic 1: Fire control in combat.
30.	Lecture	2	2	<p>Class 1. Fire control in combat.</p> <p>1. Organisation of fire in different types of combat.</p>

					2. Fire control in various types of combat.
31.	Group session	2	2		Exercise 2. Platoon fire control in defence. 1. The work of the platoon leader in organising fire in defence. 2. Platoon fire control in defence. 3. Drawing up a diagram of a platoon stronghold, working out documents.
32.	Group session	2	2		Exercise 3. Platoon fire control in the offensive. 1. The work of the platoon commander in organising interaction in the offensive. 2. Platoon fire control during the attack.
Section 6. Fire training and firing.					
		38	38		Topic 1: Fundamentals and rules of small arms and melee fire.
33.	Practical session	6	6		Session 1: Techniques and methods of firing small arms and melee weapons in the daytime. 1. Check the combat and bring small arms and grenade launchers back to normal. 2. Performing a training exercise with the AKS-74 (AK-TK8, AR-15) (according to the list of exercises). 3. Performing a training exercise with the MS-25 (according to the list of exercises). 4. Fulfilment of firearms training standards (in accordance with the schemes album).
34.	Practical session	4	4		Session 2: Techniques and methods of firing small arms and melee weapons at night. 1. Performing a training exercise with the AKS (AK-TK8, AR-15) (according to the list of exercises). 2. Fulfilment of firearms training standards (in accordance with the schemes album).
35.	Practical session	6	6		Session 3: Techniques and methods of firing small arms and melee weapons in the daytime. 1. Check the small arms and bring them back to normal and check the grenade launcher. 2. Performing a training exercise with the AKS (AK-TK) (according to the list of exercises). 3. Execution of training firing exercises with AGS-17, MK-19 (according to the list of exercises) 4. Fulfilment of firearms training standards (according to the album of schemes)
36.	Practical session	6	6		Exercise 4. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Check the small arms and bring them back to normal and check the grenade launcher. 2. Performing a training exercise with a PK (PKM) (according to the list of exercises). 3. Execution of a training exercise with LPG-9 (according to the list of exercises). 4. Fulfilment of firearms training standards (in accordance with the schemes album).
37.	Practical session	6	6		Exercise 5. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Execution of the exercise of training firing from the SSCM (NSV), Browning M2. (According to the list of exercises). 2. Fulfilment of firearms training standards (in accordance with the schemes album).

38.	Practical session	4	4	<p>Exercise 6. Preparing an ATGM for firing.</p> <ol style="list-style-type: none"> 1. Training in the performance of H-MS-1, 2 product 9K111, 9K115. 2. Training on the KORSAR and UTS 111-1. 3. Training in the use of NLAW and Javelin.
39.	Practical session	6	6	<p>Exercise 7. Techniques and methods of firing small arms and melee weapons in the daytime.</p> <ol style="list-style-type: none"> 1. Execution of training firing exercises with weapons of the NATO Armed Forces (according to the list of exercises) 2. Execution of a training exercise with grenade launchers from NATO countries (according to the list of exercises). 3. Fulfilment of firearms training standards (according to the album of schemes)
		30	30	Topic 2. Fire training. Performing firing exercises with weapons of combat vehicles.
40.	Practical session	6	6	<p>Session 1: Techniques and methods of firing from weapons of combat vehicles during the day.</p> <ol style="list-style-type: none"> 1. Checking the battle and bringing the APCS-80 armament to normal operation. 2. Performing a preparatory firing exercise from an APCS-80 (according to the list of exercises). 3. Fulfilment of firearms training standards (in accordance with the schemes album).
41.	Practical session	6	6	<p>Class 2: Crew actions when arming combat vehicles.</p> <ol style="list-style-type: none"> 1. Training in crew actions when armed with BMP-2. 2. Fulfilment of firearms training standards. 3. Check of the battle and bringing the BMP-2 armament to normal operation.
42.	Practical session	6	6	<p>Session 3: Techniques and methods of firing from weapons of combat vehicles during the day.</p> <ol style="list-style-type: none"> 1. Combat check and adjustment of BMP-2 weapons to normal operation 2. Performing a preparatory exercise of firing from BMP-2 (according to the list of exercises). 3. Fulfilment of firearms training standards (in accordance with the schemes album).
43.	Practical session	6	6	<p>Exercise 4. Techniques and methods of firing from weapons of combat vehicles during the day.</p> <ol style="list-style-type: none"> 1. Sight alignment, combat check and bringing the twin BMP-1 machine gun to normal operation. 2. Execution of a training exercise with BMP-1 (according to the list of exercises). 3. Fulfilment of firearms training standards (in accordance with the schemes album).
44.	Practical session	6	6	<p>Exercise 5. Crew actions when arming combat vehicles.</p> <ol style="list-style-type: none"> 1. Sight alignment, combat check and bringing the twin machine guns of APCS-3 and APCS-4 to normal operation. 2. Performing a preparatory exercise of firing from APCS-3, APCS-4 (according to the list of exercises). 3. Fulfilment of firearms training standards (in accordance with the scheme book).

		12	12	Topic 3. Fire control in combat.
45.	Practical session	6	6	Exercise 1. The work of a platoon leader in defensive fire control. 1. The platoon leader sets a combat mission for defence. 2. Setting tasks for platoon personnel and firepower. 3. Training in giving commands to open fire and setting fire objectives.
46.	Practical session	6	6	Exercise 2. The work of the platoon leader in controlling the squad's fire in the offensive. 1. Setting a combat task by the platoon leader in the offensive. 2. Setting tasks for the personnel and firepower of the unit. 3. Training in giving commands to open fire and setting fire objectives.
Control measures		6	6	Examination
Total for the educational component		150	150	

BC 3 Airborne training

component name

The general objective of the educational programme component:

The main objective of teaching the discipline Airborne Training is to train a tactical officer who is able to organise airborne training in a Marine unit during service and combat missions, prepare personnel, weapons and cargo for parachute landing.

As a result of studying the discipline, students should:

to know:

requirements of the guiding documents that regulate the content of combat training and the methodology for organising and conducting airborne training sessions with personnel;
organising the training of personnel and cargo for parachute and landing;
organising and conducting training parachute jumps from helicopters and transport aircraft of the Armed Forces of Ukraine;
organising the landing of units for combat missions and tactical exercises;
material parts of human airborne parachutes and parachute devices, airborne equipment;
requirements for the airborne training facilities.

be able to:

- organise, personally supervise and conduct the preparation of a platoon of marines for landing;
- Prepare and load personnel, weapons and equipment into transport aircraft and helicopters;
- organise and conduct technical inspections of airborne equipment and property;
- Conduct RAP training with unit personnel

Organisational and methodological guidelines:

Tasks (guidelines) issued for independent work are contained in the teaching and methodological materials of the discipline, which are developed taking into account the level of basic knowledge and other characteristics of students. Parachute jumps are performed at the expense of the reserve of training time.

Logistics:

- A computer and a computer data projector;
- parachute systems of various types;
- Airborne complex;

- training complex;

Information and methodological support:

1. Airborne Training, Ukrainian Armed Forces, 2023.
2. Training manual "Parachute Cargo Containers", UA, 2020.
3. Training manual "Special equipment of a paratrooper" DIA, 2010.
4. Training manual "Parachute Landing", VA, 2019.
5. Training manual "Maintenance of airborne equipment", Ukrainian Airborne Forces, 2019
6. Handbook "Airborne Parachute Systems of the World's Leading Countries", VA, 2019.
7. Training manual "Methodology of training personnel for parachute jumping", VA, 2019.
8. The Airborne Service Manual (ASM 2006) 2007.
9. Airborne Service Manual (KPDS-2003) Part 2, 2003.
10. Collection of standards for combat training of the Airborne Assault Forces, 2017.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, control measures	Quantity hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
		8	8		Topic 1: Organisation of airborne training and operation of airborne equipment in the unit
1.	Lecture	2	2		Session 1: General provisions on the organisation of airborne training. 1. Requirements of the guidelines for airborne training. 2. Duties of airborne training officials. 3. Documents on the organisation of airborne training in a military unit.
2.	Lecture	2	2		Class 2. Operation and maintenance of airborne equipment. 1. Classification of airborne vehicles. 2. Procedure for the supply, accounting and write-off of airborne equipment. 3. Organise technical inspections of airborne equipment.
3.	Group session	2	2		Class 3: Organisation of technical inspections of airborne vehicles. 1. Preparation of documents for technical inspections of airborne equipment 2. The procedure for maintaining documents on the operation of airborne equipment.
4.	Group session	2	2		Exercise 5. The procedure for keeping airborne training documents. 1. The procedure for maintaining documentation on airborne training. 2. Preparation of documents for skydiving.
		4	4		Topic 2. Airborne parachute systems.
5.	Group session	2	2		Class 1: Material part of airborne parachute systems. 1. Purpose, tactical and technical data and composition of airborne parachute systems. 2. Structure of the components of parachute systems.
6.	Group session	2	2		Class 2. Material part of reserve and parachute devices. 1. Purpose, tactical and technical data, and structure of spare parachutes. 2. Purpose, technical data and structure of parachute devices.

				3. Procedure for preparing and installing parachute devices on parachute systems.
		12	12	Topic 3. Parachute stowage
7.	Practical session	4	4	Session 1: Organisation of parachute stowage. 1. Prepare the workplace for parachute laying. 2. Procedure for laying airborne parachute systems and control of laying stages.
8.	Practical session	8	4/4	Classes 2, 3. Training parachute deployment. 1. Preparing the workplace for parachute laying. 2. Laying of airborne parachute systems and control of laying stages.
		6	6	Topic 4. Practising the elements of a parachute jump on the simulators of the airborne complex
9.	Group session	2	2	Session 1: Airborne assault system and its elements. 1. Equipment of the airborne complex. 2. Training of parachutists at the airfield (start). 3. Practice the elements of a parachute jump on MAC simulators.
10.	Practical session	4	2/2	Sessions 2, 3. Practicing the elements of a parachute jump on an airborne complex. 1. Parachutists training at the airfield (start). 2. Practice the elements of a parachute jump on MAC simulators.
		10	10	Topic 5. Parachute landing
11.	Group session	2	2	Class 1: A set of removable on-board equipment for the CBRN 1. Set of removable on-board equipment "Adapter-M1, Rope-1". 2. The procedure for parachute landing.
12.	Practical session	4	2/2	Classes 2, 3. Parachute landing 1. Landing with the help of the Adapter-M1, Rope-1 EWC. 2. The procedure for evacuation of personnel.
13.	Practical session	4	4	Session 4. Parachuting 1. Airborne assault with the help of the Mi-8 helicopter. 2. Procedure for evacuating personnel using the Adapter-M1, Kanat-1.
		10	10	Topic 6. Parachute cargo packaging
14.	Group session	2	2	Session 1: Cargo containers and landing straps 1. Purpose, technical data and structure of cargo containers and landing straps. 2. Prepare cargo containers and straps for landing.
15.	Group	4	4	Class 2. Material part of parachute containers

	session				1. Purpose, tactical and technical data and structure of the PDMM-47, PDUR-47. 2. Purpose, tactical and technical data, and structure of the cargo parachute OKS-4 series 4. 3. Laying of the cargo parachute OKS-4 series 4.
16.	Practical session	4	4		Classes 3, 4. Preparing cargo for airdrop in parachute containers 1. Laying down a cargo parachute OKS-4 series 4. 2. Preparation of cargoes for landing in parachute containers.
		8	8		Topic 7. Methodological preparation
17.	Lecture	2	2		Class 1: Airborne training and the basics of teaching it 1. Methods of preparation and conduct of airborne training exercises. 2. The procedure for assessing airborne training. 3. Military standards for airborne training.
18.	Group session	2	2		Exercise 2. Methods of conducting exercises at an airborne complex 1. Methods of conducting training on simulators of the airborne complex. 2. Methods of training paratroopers of various specialities for jumping.
19.	Group session	4	4		Class 3. Methods of laying airborne parachute systems 1. Methods of laying airborne parachute systems and their control. 2. Methods of checking parachutes.
	Control measures	2	2		Credit
	Total for the educational component	60	60		

BC 4 Structure of armoured vehicles

component name

The general objective of the educational programme component:

The main purpose of teaching the discipline structure of armoured vehicles is to prepare a tactical level military command officer who will:

knows the theoretical foundations of armoured weapons and equipment, prospects for their development and military equipment of NATO member states' armies;

has full knowledge of the structure of the BTR-80 armoured personnel carrier and BMP-2 infantry fighting vehicle;

is able to technically competently operate the units and mechanisms of the BTR-80 armoured personnel carrier and BMP-2 infantry fighting vehicle, determine their technical condition, and troubleshoot them during operation;

familiar with the general structure of other BTOT models;

capable of independently developing new models of armoured weapons and equipment.

As a result of studying the discipline, students should:

to know:

tactical and technical characteristics, combat capabilities, general structure and principle of operation of components of the main models of armoured vehicles of regular units, the procedure for diagnosing and carrying out simple types of routine maintenance.

be able to:

correctly operate units, devices, assemblies and systems of BTOT samples;

to determine the performance of component parts (systems) of armoured weapons and equipment samples;

independently master new models of equipment in the army.

to organise the implementation of safety measures when working at the BTOT;

Organisational and methodological guidelines:

The process of training in the structure and maintenance of combat vehicles is carried out taking into account the basic principles of training (visibility, consistency, systematicity, individual approach, etc.) and includes: studying the purpose of the technical characteristics and structure of systems, units, components and mechanisms, studying the procedure for their maintenance.

The main types of classes are group, practical and independent work.

In group classes, students study the general structure and principles of operation of combat vehicle systems and units and their maintenance. It is advisable to conduct group classes with the creation of problem situations. Classes are held in specialised classrooms with appropriate material support. Presentation material, equipment of specialised classes and areas, and technical training aids are used in the conduct of classes.

The methodology of the class is chosen by the instructor, but it must ensure that the students learn the material effectively and develop creative analytical thinking, a broad technical outlook, and the ability to work independently with technical literature.

Practical classes are conducted to consolidate the knowledge gained by students in group and independent classes, to acquire the necessary skills and abilities, as well as to assess the knowledge of students on the topic. During practical classes, students' knowledge is tested. It is conducted in oral or written form, by performing practical operational tasks, tests, etc.

Practical classes with a training group of cadets are usually conducted by two teachers with the involvement of the engineering and technical staff of the department with the division of the training group into subgroups.

During Practical session, along with acquiring practical skills in performing work on armoured vehicles, cadets must improve their skills in methodological training. For this purpose, they may be appointed as assistant class leaders and supervisors at training sites.

In order to develop technical erudition and a more in-depth understanding of the structure and operation of armoured vehicles, cadets are trained using maintenance equipment on regular equipment of the units.

During independent work, students consolidate previously studied material, work independently with technical literature and documentation, and work on individual issues on their own. For each independent work, cadets are provided with the necessary material support, recommended literature and questions for self-control.

The responsibility for creating conditions for the organisation of high-quality independent work of cadets lies with the commanders of the units, who organise and keep records of independent work of cadets with the involvement (if necessary) of the teachers of the department.

Logistics:

BTR-80 armoured personnel carrier;

BMP-2 infantry fighting vehicle;

YPR-765 infantry fighting vehicle.

APCS BTR-80;

models of BTR-80 components and assemblies;
BMP-2 training classroom;
Spare parts of the machine;
PC (multimedia projector).

Information and methodological support:

1. Armoured weapons. Study guide. Military Academy. Odesa-2015.
2. Infantry fighting vehicle BMP-2. Structure and basics of operation. MOD Lviv, 2011.
3. Armoured personnel carrier BTR-80. Structure and basics of operation. MOD Lviv 2012.
4. BTR-3DA armoured personnel carrier "Operation Manual" B1352 RE-LU 2015.
5. APCS-3E1. Technical description and operating instructions. Kyiv 2014, 363 pp.
6. Sample instructions on the rules for compliance with safety requirements during the operation and repair of armoured weapons and equipment and armoured property. 05.BTOT.018.I.- K.: 2002. - 208 p.
7. Guidelines for the organisation of the operation of armoured weapons and equipment in the Armed Forces of Ukraine in peacetime. Approved by Order of the Minister of Defence of Ukraine 665 of 25.12.2009.
8. Structure and operation of basic armoured vehicles. MOD Lviv 2012.
9. Military repair of weapons and military equipment. IOU OISV-2004.
10. Technical Description and Operation Manual for APCS-4E. Kyiv -2014. B1318E-1 RE. - 446 p.
11. Technical support of ground forces units. MOD Odesa-2001.
12. A collection of operational cards for the implementation of technical training standards for mechanised, tank and reconnaissance units. 2002 - 264 p.

13. Handbook on the Armoured Service of the Armed Forces of Ukraine 2013, 133 pp.
14. Technical support of the Army units Odesa OISV 2001 164p.
15. Management of technical support of units of the Armed Forces of Ukraine part 2. MOD Odesa 2011.
16. Military repair of weapons and military equipment. IOU OISV-2004.
17. BTR-3E1 Technical description and operating instructions Kyiv. Varta, 2014, 447 pp.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, control measures	Quantity hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
		8	8		Topic 1: General structure of combat vehicles.
1	Practical session	4	4		Class 1: Practical study of the general structure of tracked combat vehicles. 1. Study of the general structure and layout of machines. 2. Study the placement of the crew, troops and equipment in the compartments of the vehicle. 3. Use of hatches, vehicle doors and crew seats.
2	Practical session	4	4		Class 2: Practical study of the general structure of wheeled combat vehicles. 1. Study the general structure and layout of the machine. 2. Study the placement of the crew, troops and equipment in the compartments of the vehicle. 3. Use of hatches, vehicle doors and crew seats.
		2	2		Topic 2. Engines of combat vehicles.
3	Group session	2	2		Class 1: General structure of a four-stroke diesel engine. 1. The basics of the internal combustion engine. 2. The general structure and mechanisms of a four-stroke diesel engine. 3. The working cycle of a four-stroke diesel engine.
4	Group session	2	2		Class 2. Systems that ensure the operation of the engine. 1. Engine systems and their general purpose... 2. General structure of engine systems.
		2	2		Topic 3: Transmissions of combat vehicles.
5	Group session	2	2		Class 1: Transmissions of combat vehicles. 1. Purpose and general structure of the transmission. 2. Purpose and general structure of transmission units.

		4	4		Topic 4. Chassis of combat vehicles.
6	Group session	2	2		Class 1: Undercarriage of tracked combat vehicles. 1. Purpose, technical characteristics, structure and operation of the crawler. 2. Purpose, technical characteristics, structure and operation of the suspension.
7	Group session	2	2		Class 2: Chassis of wheeled combat vehicles. 1. Purpose, technical characteristics, structure and operation of the suspension. 2. Purpose, technical characteristics, structure and rules of operation of wheels.
		2	2		Topic 5. Equipment for floating.
8	Group session	2	2		Class 1: Equipment for floating combat vehicles. 1. Equipment for floating combat vehicles. 2. Purpose, technical characteristics, structure and operation of the water cannon thruster. 3. Purpose, technical characteristics, structure and operation of drainage facilities.
		2	2		Topic 6. Special equipment of combat vehicles.
9	Group session	2	2		Class 1: Special equipment of combat vehicles. 1. Smoke exhaust system and winch. 2. Purpose, technical characteristics, structure and operation of fire-fighting equipment. 3. Purpose, technical characteristics, structure and operation of the system of protection against weapons of mass destruction (WMD).
		4	4		Topic 7. Electrical equipment of combat vehicles.
10	Group session	2	2		Class 1: General structure of the electrical equipment of combat vehicles. Sources of electrical energy. 1. Purpose, technical characteristics, general structure of electrical equipment. 2. Purpose, technical characteristics, structure and operation of batteries. Procedure for checking the technical condition. 3. Purpose, technical characteristics, structure and operation of generator sets.
11	Group session	2	2		Class 2. Electricity consumers, control and measuring and auxiliary devices. 1. Purpose, technical characteristics, structure and operation of electricity consumers. 2. Purpose, technical characteristics, structure and operation of the electric motor starting system. 3. Purpose, structure and operation of control and measuring instruments. 4. Purpose and composition of auxiliary equipment.
Control measures		4	4		Credit
Total for the educational component		30	30		

BC 5 Driving combat vehicles

component name

General objective of the educational programme component:

The purpose of teaching the discipline "Driving combat vehicles" is to prepare a tactical officer who has the necessary knowledge and stable skills in: the procedure for using the technical capabilities of combat vehicles, confident driving them in different terrain conditions, time of day and weather conditions; organisation and implementation of loading (unloading) equipment onto vehicles, self-pulling during stuck vehicles and their towing; preparation, organisation and methods of conducting classes on driving combat vehicles with subordinate personnel.

As a result of studying a component of the educational programme, the student should:

to know:

basics of movement and rules of combat vehicles.

requirements of the Combat Vehicle Driving Course for the organisation of driving sessions and assessments (individual and unit).

Procedure for organising and conducting combat vehicle driving training.

be able to:

to make full use of the technical capabilities of combat vehicles.

confidently drive the unit's regular equipment over rough and difficult terrain at the highest possible speed, overcome various obstacles, limited and rutted passages and barriers;

loading (unloading) equipment onto vehicles, self-pulling in case of stuck vehicles and their towing, overcoming water obstacles;

Organise driving sessions for subordinate personnel

Organisational and methodological guidelines:

The process of training to drive combat vehicles is carried out in accordance with the basic principles of training (visibility, consistency, systematicity, individual approach, etc.) and includes: studying the basics of vehicle movement, learning the rules of driving, training on simulators, and practical driving.

The following teaching methods are used in driving sessions: narration, explanation, demonstration, training (exercises), conversation, independent work and practical driving. Practical driving is the main type of training.

The procedure for organising and conducting practical driving sessions is based on the following principles:

The number of training seats for each session and the issues to be covered is determined by the session leader based on the content of the exercise, training time, number of cadets and their level of training, material support and tank farm capacity;

each driving exercise is performed in one or more sessions;

exercises that are supposed to be performed day and night are first performed during the day and then at night;

The exercises can begin with training in elementary driving techniques (overcoming individual obstacles and narrow passages). After that, they are performed as a whole.

Logistics:

During driving exercises on machinery:

- BTR-80 (BTR-3E1U) - 4 units;
- BMP-1 (BMP-2) - 4 units;
- an ambulance;
- an evacuation vehicle;
- another car;
- equipment of the tank farm in accordance with the planned exercises;

During driving exercises on simulators:

- dynamic simulator BMP-2 - 3 units;
- BMP-2 - 1 unit;
- APC and IFV training stands.

Information and methodological support:

1. Armoured weapons: a textbook / Y.P.Karlenko, S.V.Melnychenko, V.A.Ovchynnyk, K.O.Luhovskikh - Odesa: Military

- Academy, 2015 - 222 p.
2. BTR-3DA armoured personnel carrier: operating instructions. 2015 p., K., KBTZ. - 541 p.
 3. BTR-3E1U Armoured Personnel Carrier: Operation Manual. 2015, K, KBTZ - 534 p.
 4. Driving combat vehicles: a practical manual / V.M. Yarmoliuk, V.V. Remin, M.M. Mahats, V.V. Melnyk - Odesa: Military Academy, 2019. 92 p.
 5. Driving Combat Vehicles: A Study Guide / M.V.Chorny, R.V.Dolhov, S.S.Stepanov et al. - Lviv: NASV, 2016 - 454 p.
 6. Collection of standards for combat training of the Land Forces of the Armed Forces of Ukraine. - Kyiv, 2002. 198 p.
 7. Evacuation of weapons and military equipment: a manual. The Scientific and Educational Centre for the Armed Forces at the OOLISV, Odesa, 2004 - 116 p.
 8. Guidelines for overcoming water obstacles and land obstacles (VKDP 7-(01.02-10.22-25.32-34)01.01) - K.: GUP AFU, 2019 - 184 p.
 9. Combat Vehicle Driving Course (BP 7-00(01.01)), 2019 - K., GUP of the Armed Forces of Ukraine, 2019 - 126 p.
 10. Methodological recommendations. Training of mechanics-drivers (drivers) (MS 7-00(03).01). -K. GUP AFU, 2019 - 116 p.
 11. Fundamentals of movement and rules of driving combat vehicles: a training manual / M.V.Chorny, R.V.Dolhov, S.S.Stepanov et al.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, control measures	Quantity hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
		4	4		Topic 2. Driving basics.
1	Practical session	4	4		Class 1: Performing preparatory exercise No. 1 on the technique in the afternoon. 1. Controls of the combat vehicle, control and measuring devices and rules for their use. Preparing the vehicle for movement, starting the engine, moving off, braking and stopping the vehicle 2. Practical performance of preparatory exercise No. 1 on the technique during the day 3. Practice the technique of stopping the car in the designated place (obstacle No. 8) and reversing. 4. Rules for driving combat vehicles. Procedure for giving marks for driving technique and speed.
		4	4		Topic 3: Techniques for overcoming natural obstacles.
2	Practical session	4	4		Class 1: Performing preparatory exercise #2 on the technique in the afternoon. 1. Practical performance of preparatory exercise No. 2 on the technique. 2. Practice the technique of stopping the car in the specified place (obstacle No. 8) and turning between the posts (obstacle No. 7). 3. Rules of driving. Specific features of preparatory exercise 2 during the day.
		7	7		Topic 5. Driving other brands of combat vehicles.
3	Practical session	3	3		Session 1: Perform preparatory exercise No. 1 on the simulator. 1. Controls of the combat vehicle, control and measuring devices and rules for their use. 2. Practical performance of preparatory exercise No. 1 on the simulator. 3. Training in fulfilment of the technical training standard No. 1 "Control inspection of the machine" 4. Driving rules. Preparing the machine for movement, starting the engine, moving off, braking and stopping the machine.
4	Practical session	4	4		Class 2: Performing preparatory exercise No. 1 on the technique in the afternoon. 1. Practical implementation of preparatory exercise 1. 2. Practice the technique of stopping the car in the designated place (obstacle No. 8) and reversing. 3. Rules for overcoming obstacles, models of structures and additional equipment, according to the conditions of

					preparatory exercise No. 1. 4. 4.
Total for the educational component		15	15		

BC 6 Operation of armoured vehicles

component name

The general objective of the educational programme component:

training of a tactical officer who knows the theoretical foundations of organising the proper operation of armoured weapons and equipment of units in peacetime and wartime, understands the processes of changing the condition of the vehicle, has solid practical skills in organising maintenance, repair, evacuation and maintaining the equipment of marine units in combat readiness, is able to check and assess the condition of vehicles, and conduct technical training classes in the unit.

As a result of studying the discipline, students should:

to know:

structure, tactical and technical characteristics and operation of weapons and military equipment of airborne assault troops and marines;

the procedure for preparing weapons and military equipment of the unit for combat use, the main ways to prevent breakdowns of weapons and military equipment and their elimination;

the procedure for the operation of regular weapons and military equipment, the requirements of guidelines for the storage and operation of weapons and military equipment, the rules for the preparation and maintenance of technical documentation of the unit;

the procedure for organising the transportation of weapons and military equipment by rail and other means of transport, and the fastening of all types of military equipment during transportation.

be able to:

organise and ensure the correct use, maintenance and upkeep of standard armoured vehicles; personally supervise the work performed during the established types of vehicle maintenance, preparation of vehicles for overcoming water obstacles using spare parts and equipment of mobile and stationary maintenance facilities;

check and evaluate the technical condition of the BTOT supervise the work of platoon and company personnel during maintenance;

independently master new models of equipment and weapons, their combat use and operation;

ensure compliance with safety measures during operation and restoration of weapons and equipment of the unit.

Organisational and methodological guidelines:

The process of training in the operation of the fuel assembly is carried out taking into account the basic principles of training (visibility, consistency, systematicity, individual approach, etc.).

The main types of classes are group and practical classes.

During group sessions, students study the maintenance of combat vehicle units (systems) and other operational issues. It is advisable to conduct group classes with the creation of problematic situations. Classes are held in specialised classrooms with appropriate material support. Presentation material, specialised classroom equipment and technical training aids are used in the conduct of classes.

The methodology of the class is chosen by the instructor, but it should ensure that the students learn the material effectively and develop creative analytical thinking, a broad technical outlook, and the ability to work independently with technical literature.

Practical classes are conducted to consolidate the knowledge gained by students in group and independent classes, to acquire the necessary skills and abilities, as well as to assess the knowledge of students on the topic. During practical classes, students' knowledge is tested. It is conducted in oral or written form, by performing practical operational tasks, tests, etc.

Practical classes with a training group of cadets are usually conducted by two teachers with the involvement of the technical staff of the department and the division of training groups into subgroups.

During Practical session, along with acquiring practical skills in performing work on the BOTO, cadets should improve their skills in methodological training. To this end, they may be appointed as assistant classroom teachers and supervisors at training sites during Practical session.

In order to develop technical erudition and a more in-depth familiarisation with the rules of operation of armoured vehicles, cadets are trained using maintenance equipment on regular equipment of the units.

Logistics:

BTR-80 armoured personnel carrier;

BTR-4 armoured personnel carrier;

BMP-2 infantry fighting vehicle;

YPR-765 infantry fighting vehicle.

APCS BTR-80;

models of BTR-80 components and assemblies;

BMP-2 training classroom;

PC (multimedia projector).

Information and methodological support:

1. Guidelines for the storage of armoured weapons and equipment. - K.: 1996. - 327 p.
2. Infantry Fighting Vehicle BMP-2 Structure and Basics of Operation Lviv 2011 644pp.
3. Armoured Personnel Carrier BTR-80. Structure and basics of operation Lviv 2012 644pp
4. Model instructions on the rules of compliance with safety requirements for the operation and repair of armoured weapons and equipment and
Armoured Vehicle Property... - K.: 2002.
5. Operation of armoured vehicles. Ch I. VA (Odesa) - 2020.
6. Armoured armament. VA (Odesa) - 2015.
7. Driving combat vehicles. VA (Odesa) - 2019.
8. A guide to overcoming water and land obstacles. Kyiv. 2019.
9. A methodological guide on planning, organising and conducting activities for the transfer of weapons and military equipment for summer (winter) operation in the Armed Forces of Ukraine.
Kyiv-2021.
10. Handbook on the Armoured Service of the Armed Forces of Ukraine 2013, 133 p.
11. Methodological manual on the main issues of organising the daily activities of troops (forces) K. Varta 2003.-560pp.
12. Methodological recommendations on the protection of troops (forces) and military facilities at permanent deployment points and in areas (places) of execution

of assigned tasks. Kyiv: General Staff of the Armed Forces of Ukraine, 2014.

13. The Combat Statute of the Armed Forces of Ukraine "Transport Operations and Military Transportation". December 2020.

14. Training manual "Operation of armoured vehicles". part 3. Odesa, VA, 2024.

Topics and allocation of class time by type of class

№ s/n	Types of training classes, control measures	Quantity hours	Among them.		Topic title and study questions
			Audit hours	Independent work	
		2	2		Topic 1: Basic provisions for the operation of armoured weapons and equipment.
1.	Lecture	2	2		Session 1: Current trends and prospects for the development of the armoured vehicle maintenance system. 1. The current state of the armoured weapons and equipment operation system. 2. Prospects for the development of the system of operation of armoured weapons and equipment
		6	6		Topic 2. Maintenance of armoured personnel carriers
2.	Group session	2	2		Class 1: Types of APC maintenance. 1. Types of maintenance of APCs. 2. Purpose and classification of maintenance equipment for armoured weapons and vehicles. 3. Spare parts purpose, sets, composition and placement of spare parts on the machine.
3.	Practical session	4	4		Class 2. Daily maintenance of armoured personnel carriers. 1. Purpose, frequency, duration of daily maintenance. 2. The scope and sequence of daily maintenance of APCs. 3. Carry out daily maintenance. 4. Use of park equipment when performing work WHAT.
		2	2		Topic 3. Fuels and lubricants.
4.	Group session	2	2		Class 1: Classification of fuels and lubricants. 1. Classification of performance materials. 2. Fuel: operational requirements, main properties, range, consumption rates.
		2	2		Topic 4. Parks and park equipment.
5.	Group session	2	2		Class 1: The park of a military unit. 1. Definition, types of parks and requirements for them. 2. Elements of the permanent fleet: their purpose, location and equipment. 3. Technological process of servicing machines in a permanent fleet. 4. Internal order in the park.

		6	6	Topic 5. Maintenance of infantry fighting vehicles.
6.	Group session	2	2	Class 1: Types of maintenance of IFVs. 1. Types of maintenance of BMPs. 2. Purpose and classification of maintenance equipment for armoured weapons and vehicles. 3. Spare parts purpose, sets, composition and placement of spare parts on the machine
7.	Practical session	4	4	Class 2: Performing practical work on the daily maintenance of BMPs. 1. Purpose, frequency, duration of daily maintenance. 2. The scope and sequence of daily maintenance of the BMP. 3. Perform daily maintenance. 4. Use of park equipment when performing work WHAT.
		12	12	Topic 6. Operation of armoured weapons and equipment.
8.	Group session	2	2	Session 1: Preparation of the BTOT for winter operation. 1. Works performed on BMPs and APCs in preparation for winter operation 2. Rules of operation of BMPs and APCs in winter.
9.	Group session	2	2	Session 2: Preparation of APCs and IFVs for operation in summer. 1. Works performed on APCs and IFVs in preparation for summer operation. 2. Rules of operation of APCs and BMPs in summer.
10.	Practical session	4	4	Class 3: Preparation of armoured weapons and equipment for operation. 1. Prepare the machine for operation in the summer. 2. Performing work to prepare the machine for operation in winter 3. Record the work performed in the machine documentation.
11.	Practical session	4	4	Class 4. Mobile maintenance equipment. 1. Use of MTO-80 for maintenance and repair of regular weapons and equipment. 2. Use of TRM-A-80 for maintenance and repair of regular weapons and equipment. 3. Filling machines with fuel, oil and grease using MZA-3.
		6	6	Topic 7. Preparing the vehicle to overcome a water obstacle.
12.	Group session	2	2	Session 1: Preparing combat vehicles to overcome water obstacles. 1. Requirements for the technical condition of machines when overcoming water obstacles. 2. The scope and procedure of work performed on the machine in preparation for overcoming a water obstacle. 3. Preparing the machine for movement after overcoming the water obstacle.
13.	Practical session	4	4	Session 2: Practical work on preparing the vessels for floating. 1. Check the tightness of the machines.

					2. Check the readiness of the machines to float.
		6	6		Topic 8: Evacuation of vehicles.
18.	Group session	2	2		Session 1: Basic provisions for evacuation. 1. Types of machine jams and their classification. 2. Means of evacuation of battalion vehicles and their technical characteristics. 3. Use of technical means of evacuation. 4. Peculiarities of evacuation of vehicles during military operations.
14.	Practical session	4	4		Session 2: Practical work on evacuation and securing of vehicles. 1. Self-extracting machine with a log and winch. 2. Pulling out machines with a poly chain hoist. 3. Towing machines with cables and a rigid hitch. 4. Installing machines on platforms and securing them in various ways
Control measures		5	4	1	Credit
Total for the educational component		45	44	1	