

APPROVED

By the Council of the ENDC on 02 April 2013

Amended

By the Council of the ENDC on 10 September 2013. 11 June 2014, 16 June 2015

Last amended

By the decision of the Council of the ENDC on 14 June 2016

Name of the Curriculum in Estonian	Sõjaväeline juhtimine õhuväes
Name of the Curriculum in English	<i>Military Leadership for Air Force</i>
Level of Higher Education Studies	Professional higher education
Form of Study	Regular studies (full-time), external studies
Educational institution	Estonian National Defence College (ENDC)
Volume of Studies	180 European Credit Points (ECP)
Nominal Period of Study	3 years
Field of Study	National Defence
Curriculum Reg. No. in EHIS	120243
Language of Instruction	Estonian
Other Languages Required for the Achievement of the Curriculum Outcomes	English
Approval and Registration of the Curriculum in EHIS	Registered in EHIS on 07.05.2013
Approval of the Curriculum in the Educational Institution	Approved by the ENDC Council on the 02nd of April 2013.
Candidate Requirements	Estonian citizenship, secondary education, eligibility for active service, taking entrance tests.
Requirements for the Admission to the Curriculum	Completed compulsory military service, matriculation, entering active service, posting in the Defence Forces, completion of a synchronization course in the ENDC.
Major Specialization and its Volume Within the Curriculum	Air Force Military Leadership (145 ECP)
Specialization Within the Curriculum	Air Operations, airfield or air surveillance specialty (35 ECP)
Objectives of the Curriculum	The aim of the this curriculum is to prepare junior officers for service in peacetime and wartime posts in the radar pickets, flights or squadrons in the Estonian Air Force subunits. It has been compiled considering the work environment and functions that an officer should perform creatively as part of his/her job - those of a leader, educator and technician. The curriculum enables specialisation in air operations, airfield and air surveillance specialties.

Outcomes of the Curriculum	<p>After completion of this curriculum the student:</p> <ol style="list-style-type: none"> 1) Knows the tasks of the Air Force and the working principles of its subunits and understands the principles of cooperation within Air Force and between services; 2) Is able to consider the cooperation principles between the Air Force, civil aviation and NATO Air Defence System when performing his/her service duties; 3) Knows the concepts, equipment and methods of his/her specialisation and is able to use them in a purposeful manner when performing his/her service duties; 4) Is capable of leading an infantry platoon-sized unit in wartime conditions; 5) Has acquired the required knowledge and skills for executing and evaluating the training of a unit; 6) By taking societal and ethical questions into account, is able to assess his or her role and the consequences on society of his or her actions as a military leader; 7) Is aware of different scientific concepts and regularities related to the field of military and their potential applications of different scientific and technological developments in warfare; 8) Is able to understand and explain the issues related to his or her work in Estonian and in at least one foreign language in written and oral form; 9) Is capable of choosing appropriate ways and means for fulfilling his or her duties by collecting information independently, interpreting it creatively and critically and formulating the results into research work as required; 10) Is able to continue his or her studies and personal development independently.
Degree Certificate Awarded Upon Graduation	A bachelor's degree of professional higher education (Military Leadership for Air Force)
Documents Awarded Upon Graduation	A diploma of professional higher education, a diploma supplement in Estonian and English language.
Rank Awarded Upon Graduation	Second Lieutenant
Short Description of the Curriculum	<p>The curriculum consists of the following modules:</p> <ul style="list-style-type: none"> - - general leadership module (33-36 ECP), - - military leadership module (46-49 ECP), - - technology module (42-45 ECP), - - pedagogy and research module (21-24 ECP), - - choice of specialisation module (35 ECP).
Completion of the Curriculum	Completion of all modules and subjects listed in the curriculum is obligatory for regular full-time students. Subjects are completed according to the progression of subjects as prescribed by the ENDC. Specialisation

	<p>modules are made available based on the needs of the Estonian Defence Forces.</p> <p>As an external or visiting student the modules and/or subjects are completed in the manner prescribed by the ENDC (passing prerequisite subjects, limitations to participating in studies arising from the Defence Forces Service Act).</p> <p>The studies after the completion of the curriculum are provided with regard to the person's eligibility for active service fulfilling the post of a junior officer.</p>
Graduation Requirements	In order to complete the entire curriculum a student must pass subjects up to a total of 170 ECP and defend a Master's thesis valued at 10 ECP.
More Information	<p>www.ksk.edu.ee</p> <p>Estonian Defence Forces: www.mil.ee</p>

MODULES OF THE CURRICULUM AND THEIR SUBJECTS

- GENERAL LEADERSHIP MODULE (33-36 ECP)				
Code	Subject	Volume	Assessment	Semester
JP16.01	Fundamentals of Leadership	2 ECP	ND	III
ST16.01	Law of National Defence	2 ECP	D	I
ST16.02	Law of Armed Conflict	2 ECP	D	II
JP16.02	Individual and Society	2 ECP	D	I
ST14.01	State, Politics and Government	2 ECP	D	I
ST16.03	World Military History	4 ECP	D	II, IV
ST09.02	Estonian Military History	4 ECP	D	III
ST16.04	Security Policy and National Defence	3 ECP	D	IV
ÕV16.01	The History of Air Warfare	3 ECP	D	III-IV
KK13.01	Written and Oral Self-expression in Estonian	3 ECP	D	III
KK16.01	English (Level B1)***	4 ECP	ND	I-II
KK16.02	English (Level B1+)***	4 ECP	ND	I-II
KK16.03	English (Level B2)***	4 ECP	ND	I-II
ÕV16.02	Aviation English	2 ECP	ND	III
KK16.05	English Elective (Level B1+)**	3 ECP	ND	IV
JP16.03	Communication Psychology**	3 ECP	ND	IV

MILITARY LEADERSHIP MODULE (46-49 ECP)				
Code	Subject	Volume	Assessment	Semester
TK16.01	Fundamentals of Combat Operations	3 ECP	ND	I
ÕV16.03	Military Leadership in the Air Force	2 ECP	ND	V
ÕV16.04	Fundamentals of Aviation Law*	4 ECP	D	II
ÕV16.05	Airfields*	3 ECP	ND	IV
ÕV16.06	Air Traffic Management*	2 ECP	ND	V
ÕV16.07	Operation Procedures and Flight Planning*	3 ECP	ND	IV
ÕV16.08	Fundamentals of Aviation Safety*	3 ECP	ND	II
ÕV16.09	Aeronavigation Data Service*	2 ECP	ND	IV
ÕV16.10	Flight Search and Rescue*	2 ECP	ND	V
ÕV16.11	Airpower Theory and Air Operations	4 ECP	D	IV
ÕV16.12	Fundamentals of NATO Air Defence System Command and Combat Activities	4 ECP	D	V
ÕV16.13	Fundamentals of Estonian Air Force Units Command and Combat Activities	4 ECP	D	V
TK15.02	Fundamentals of Infantry Platoon Tactics and Command	10 ECP	ND	II
ST16.05	Institutions and Tasks of Internal	3 ECP	ND	IV

	Security*			
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TECHNOLOGY MODULE (42-45 ECP)				
Code	Subject	Volume	Assessment	Semester
LT16.02	Military Technology I: Tactical Communication and Electronic Warfare	2 ECP	ND	I
LT16.03	Military Technology II: Technical Equipment and Other Equipment of a Tactical Unit	2 ECP	ND	II
LT16.04	Military Technology III: Land Based Platforms	2 ECP	ND	II
LT16.05	Military Technology IV: Weaponry	2 ECP	ND	II
LT16.06	Military Technology V: Optronics and Communication Equipment	2 ECP	ND	III
LT16.07	Military Technology VI: Field Electrical Wiring	2 ECP	ND	IV
LT14.06	Models of Exact Sciences in Military	2 ECP	D	I
LT16.08	Topography and Geoinformation Systems	3 ECP	D	I-II
TK16.21	Medical Studies	3 ECP	ND	I-II
ÖV16.14	Structure of Aircrafts*	3 ECP	ND	III
ÖV16.15	Fundamentals of Aeronavigation*	4 ECP	ND	IV
ÖV16.16	Aviation Meteorology*	3 ECP	D	II
ÖV16.17	Aerodynamics*	4 ECP	D	III
ÖV16.18	Radiocommunication in Aviation*	2 ECP	ND	II
ÖV16.19	Air Surveillance*	3 ECP	D	IV
ÖV16.20	Airfield Technical Equipment*	3 ECP	ND	V
LT16.09	Applied Military Technology Research**	3 ECP	ND	IV
JP16.07	Quantitative Data Analysis*	3 ECP	ND	IV

PEDAGOGY AND RESEARCH MODULE (21-24 ECP)				
Code	Subject	Volume	Assessment	Semester
JP16.21	Basic Instructor Course	3 ECP	D	I
JP16.22	Applications of Psychology in the Defence Forces	4 ECP	ND	I-II
JP16.13	Fundamentals of Scientific Research	4 ECP	D	III-IV
JP16.14	Communicative Teaching Methods*	3 ECP	ND	IV
VT14.01	Final Paper	10 ECP	D	IV-VI

SPECIALISATION MODULE I - AIR OPERATIONS SPECIALTY (35 ECP)				
Code	Subject	Volume	Assessment	Semester
ÖV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV

ÖV16.22	Planning and Execution of Air Operations	4 ECP	D	VI
ÖV16.23	Practical Placement - Air Operations Specialty	23 ECP	ND	VI

SPECIALISATION MODULE II - AIRFIELD SPECIALTY (35 ECP)

Code	Subject	Volume	Assessment	Semester
ÖV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV
ÖV16.24	Operations and Equipment of an Airbase	4 ECP	D	VI
ÖV16.25	Practical Placement - Airfield Specialty	23 ECP	ND	VI

SPECIALISATION MODULE III - AIR SURVEILLANCE SPECIALTY (35 ECP)

Code	Subject	Volume	Assessment	Semester
ÖV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV
ÖV16.26	Air Surveillance Operations and Technology	4 ECP	D	VI
ÖV16.27	Practical Placement - Air Surveillance Specialty	23 ECP	ND	VI

MODULES OF THE CURRICULUM, THEIR OBJECTIVES AND OUTCOMES

GENERAL LEADERSHIP MODULE		Volume 33-36 ECP
Objective	The objective of the general leadership module is to provide the student with the necessary fundamental knowledge and skills that support a military leader's completion of different tasks. After completion of the module the students will form an understanding of society in the modern security environment, of the role of the defence structures and members of the defence forces in democratic society, state principles based on the rule of law, national security policy, and the areas of the air force and military as a whole. After completion of the module students will understand Estonian and at least one foreign language and will be able to express themselves in these languages in both oral and written form.	
Outcomes	After completion of the general leadership module the student: <ol style="list-style-type: none"> 1) Knows and is able to explain and analyse the rights, responsibilities and duties of a leader based on the legal and ethical principles of civil society, security policy, defence strategy and social sciences; 2) Knows the stages in world and Estonian military history and air warfare history, can explain and analyse the historical background of Estonian security policy; 3) Can express him-/herself correctly both in oral and written Estonian and uses his/her language register purposefully; 4) Is proficient in English at the lower B1 level of the Common European Framework of Reference for Languages in all skills (listening, speaking, reading, writing) and knows specialised military language necessary to fulfil his/her service duties; 5) Understands his or her role as a member of civil society and is able to assess the influence of his or her attitudes and actions on the society and the Defence Forces, taking scientific, societal, legal and ethical principles into account. 	
Assessment: the module is assessed on the basis of subjects.		

Code	Subject	Volume	Assessment	Semester
JP16.01	Fundamentals of Leadership	2 ECP	ND	III
ST16.01	Law of National Defence	2 ECP	D	I
ST16.02	Law of Armed Conflict	2 ECP	D	II
JP16.02	Individual and Society	2 ECP	D	I
ST14.01	State, Politics and Government	2 ECP	D	I
ST16.03	World Military History	4 ECP	D	II, IV
ST09.02	Estonian Military History	4 ECP	D	III
ST16.04	Security Policy and National Defence	3 ECP	D	IV
ÕV16.01	The History of Air Warfare	3 ECP	D	III-IV
KK13.01	Written and Oral Self-expression in Estonian	3 ECP	D	III
KK16.01	English (Level B1)***	4 ECP	ND	I-II

KK16.02	English (Level B1+)****	4 ECP	ND	I–II
KK16.03	English (Level B2)****	4 ECP	ND	I–II
ÖV16.02	Aviation English	2 ECP	ND	III
KK16.05	English Elective (Level B1+)**	3 ECP	ND	IV
JP16.03	Communication Psychology**	3 ECP	ND	IV

Subjects in the module (except the elective subject**) are obligatory for regular full-time students. In order to complete the entire curriculum in full the student must pass elective subjects** to a volume of 3 ECP. The obligatory English course*** is passed according to the language level of students.

The module is completed according to the progression of subjects as prescribed by the ENDC.

Subject Code	JP16.01
Subject	Fundamentals of Leadership
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students knowledge of leadership and organization theory including their main concepts, development and current central issues. The subject aims to develop the basic knowledge and skills of the students as leaders, allowing them to understand the functioning principles of different organizations in various circumstances and plan their activities as leaders in militarily structured organizations.
Outcomes of the Subject	After completion of the subject the student: 1) Understands the nature of leadership and organisation theory and current issues in the field; 2) Knows different types of organisations and their working principles and can find correlations to militarily organised organisations; 3) Knows the underlying principles of leadership, knows the classification of leaders as well as the different roles and functions of leaders; 4) Is able to distinguish between different leadership styles and methods, and can analyse their impact on human behaviour; 5) Is able to associate different leadership and organisation theories with practical leadership solutions and is able to analyze himself as a leader in his future job.

Subject Code	ST16.01
Subject	Law of National Defence
Volume	2 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students knowledge of the main concepts of law, fundamentals of public law and national defence law. The subject also provides the basic skills for applying this knowledge when solving routine practical tasks in active service in the defence forces.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the concepts and sources of law, can distinguish between different areas of law, as well as legal subjects and relationships;

	<ol style="list-style-type: none"> 2) Is able to describe the organisation of the Republic of Estonia and its system of legal protection, and can describe their working principles; 3) Knows the legal framework of national defence and the Estonian Defence Forces. Understands the nature of service in the Defence Forces. 4) Is able to resolve routine legal problems within the framework of valid legal norms and principles pertaining to his level of competence and command.
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Subject Code	ST16.02
Subject	Law of Armed Conflict
Volume	2 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students knowledge of the sources, principles and main rules of the law of armed conflict regulating the behaviour of states, combatants and civilians in armed conflicts. The subject also provides the basic skills for applying this knowledge when solving routine practical tasks in active service in the defence forces.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the sources, main concepts and rules of the law of armed conflict; 2) Is able to explain and apply the main principles of the law of armed conflict in training circumstances; 3) Is aware of the responsibility and can explain the consequences of any violation of the principles of the law of armed conflict; 4) Is able to resolve routine legal problems within the framework of valid legal norms and principles pertaining to his level of competence and command.

Subject Code	JP16.02
Subject	Individual and Society
Volume	2 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students knowledge of the main working principles in contemporary society, addressing different aspects of society as a social system (e.g. social relations and processes, social structure). The subject helps these future officers reflect on their role as military leaders in contemporary democratic civil society, supporting the development of students towards becoming ethical and responsible citizens who value democratic values and show tolerance and respect for attitudes different from their own.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the working principles of society and aspects of life in society and is able to create links between them; 2) Knows the main concepts and current issues in the social sciences and is able to relate them to military service; 3) Understands the norms and values valid in society;

	4) Is able to deal with different situations involving socio-ethical and military ethical dilemmas; 5) Understands cultural diversity and is able to take it into consideration.
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Subject Code	ST14.01
Subject	State, Politics and Government
Volume	2 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students knowledge of the structure, functioning and traditions of modern states, as well as of scholarly works related to states and statehood. The knowledge of statehood, parliamentary democracy and political pluralism make future officers more successful when participating in civil-military cooperation projects, contributing to statehood and development of society as opinion leaders and citizens.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the major concepts, choices and issues for citizens and servicemen related to statehood and politics, and knows the main solutions to them and is able to apply them; 2) Understands the nature of a democratic society and the rule of law; knows democratic values and understands his role and responsibility in a democratic society; 3) Knows the main components and values of public government and of the planning, performance and evaluation of politics, and can thereby effectively contribute to the execution of state politics; 4) Knows the parts and working principles of political participation and political culture; 5) Knows different political regimes and ideologies and is able to point out their strengths and weaknesses.

Subject Code	ST16.03
Subject	World Military History
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of major conflicts throughout world military history, as well as of military trends in different eras and the factors that shape and influence modern warfare. The subject gives future officers understanding of the associations between modern warfare and conflicts of past history
Outcomes of the Subject	After completion of the subject the student: 1) Knows the major periods of world military history and can describe them to his subordinates using reasoned argumentation; 2) Understands the role of wars in achieving political goals; 3) Is able to describe the major events, processes and factors influencing the field of military; 4) Is able to compare different military conflicts in the past and explain the evolution of modern warfare;

	5) Is able to describe the relationships between different military conflicts in the world military history.
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Subject Code	ST09.02
Subject	Estonian Military History
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students the knowledge of 20th century Estonian military history, of the evolution of Estonian national defence and of the links between events in Estonian military history and the present-day security environment. Students gain understanding of the importance of Estonian national defence and of diverse forms of resistance.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the main stages and major conflicts in the 20th century Estonian military history; 2) Knows different potential forms of resistance in combat activity on Estonian territory in the 20th century and can characterize them; 3) Is able to compare different combat activities on Estonian territory and justify his/her viewpoints; 4) Is able to explain and analyse the evolution and development of Estonian national defence; 5) Is able to relate 20th century conflicts to the current security environment of the Republic of Estonia; 6) Is able to describe Estonia's role in the context of 20th century military conflicts around the world.

Subject Code	ST16.04
Subject	Security Policy and National Defence
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students the knowledge of present-day security threats, of Estonian security policy, its assets and national defence solutions. The students will have an overview of national defence tasks that ensure national security, and of the logic behind developing the system of national defence.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Understands the strategic role of the Estonian Republic and territory in diverse conflicts; 2) Is able to name the fundamentals of the Estonian security and defence policy; 3) Is aware of security threats and can relate them to security and defence solutions at the state level; 4) Is able to evaluate the importance of different international organisations to ensure the security of the state and can analyse the balance of military capabilities in the Baltic Sea Region.

Subject Code	ÕV16.01
Subject	The History of Air Warfare
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge of the history of air warfare and of the technical and tactical developments of air force assets. The subject addresses the role of the air force in various conflicts, major battles and campaigns with air force involvement, and the air force as a constituent service of the defence forces. The subject also discusses the history of the Estonian Air Force.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the main stages of air warfare history; 2) Knows major air operations of the 20th century, can describe them and explain their importance; 3) Is able to identify different types of active and passive air defence asset, knows their evolution and reasons behind it; 4) Knows the events that have most influenced the development of air warfare assets and tactics; 5) Knows the evolution and trends of the 20th century Estonian Air Force.

Subject Code	KK13.01
Subject	Written and Oral Self-expression in Estonian
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give the students the knowledge and skills of correct and purposeful self-expression in both oral and written Estonian. The subject deals with orthography, form and syntax, the importance of differentiation between different styles of texts. Students learn to compose and interpret different styles of texts and practice public speech.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the main rules of the Estonian orthography and is able to use them when composing a text; 2) Knows different functional text styles (literary, journalistic and scientific styles, those employed in official documents and the spoken language) and can use the most appropriate of them according to purpose; 3) Knows different stylistic mistakes and is able to avoid them when composing a text; 4) Knows the principles of text compilation and can compile a coherent text him/herself (including diverse service-related texts); 5) Is able to analyse and evaluate different media texts; 6) Is able to compose a public speech and deliver it.

Subject Code	KK16.01
Subject	English (Level B1)
Volume	4 ECP

Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to develop foreign language competence at independent user's level B1 (threshold). The subject outcomes are based on the level descriptors of the Common European Framework of Reference for Languages. During the course the students acquire additional knowledge about grammar, enhance their listening, reading, writing and speaking skills, vocabulary and pronunciation. An awareness of the cultural norms of the target language is increased. Specialist vocabulary on general military topics is developed. The course aims to support the process of lifelong learning where continuity plays a key role.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Can write straightforward connected texts on a range of subjects, including military topics, e.g. descriptions, official letters and summaries based on written and oral sources in English presenting basic factual information; 2) Can reasonably fluently sustain oral communication, using basic sentence constructions and linking devices, can participate in group works, discussions and conversations; 3) Can give a prepared straightforward presentation on different topics, including military topics, based on written and oral sources in English presenting basic factual information; Can ask and provide answers to simpler questions from the audience after his/her presentation.

Subject Code	KK16.02
Subject	English (Level B1+)
Volume	4 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to develop foreign language competence at independent user level B1+ (upper threshold). The subject outcomes and assessment criteria are based on the level descriptors of the Common European Framework of Reference for Languages. During the course the students acquire additional knowledge about grammar, enhance their listening, reading, writing and speaking skills, vocabulary and pronunciation. An awareness of the cultural norms of the target language is increased. Specialist vocabulary on general military topics is developed. The course aims to support the process of lifelong learning where continuity plays a key role.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Can write straightforward connected texts on a range of subjects, including military topics, e.g. descriptions, official letters, summaries and essays based on written and oral clearly signalled argumentative texts in English presenting accumulated factual information; 2) Can clearly express and justify his/her ideas, and participate in group works, e.g. discussions, debates and disputes; 3) Can give a prepared straightforward presentation with some degree of confidence on different topics, including military topics, based on clear written and oral sources in English presenting accumulated factual

	information; Can ask and provide answers with some degree of confidence to questions from the audience after his/her presentation.
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Subject Code	KK16.03
Subject	English (Level B2)
Volume	4 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to develop foreign language competence at independent user level B2 (vantage). The subject outcomes are based on the level descriptors of the Common European Framework of Reference for Languages. During the course the students acquire additional knowledge about grammar, enhance their listening, reading, writing and speaking skills, vocabulary and pronunciation. An awareness of the cultural norms of the target language is increased. Specialist vocabulary on general military topics is developed. The course aims to support the process of lifelong learning where continuity plays a key role.
Outcomes of the Subject	After completion of the subject the student: 1) Can write clear, well structured, detailed texts on a variety of subjects, including military topics, e.g. descriptions, official letters, summaries and essays, synthesizing and evaluating information and arguments from a number of sources, providing their point of view giving reasons in support of or against a particular point of view, using authentic linguistically and propositionally complex English sources; 2) Can express him or herself clearly and appropriately when participating in group works, e.g. discussions, debates, disputes, giving the advantages and disadvantages of various options on a wide range of subjects. Can expand and support ideas with subsidiary points and relevant examples; 3) Can give a clear, prepared presentation on a variety of subjects, including military topics based on linguistically and propositionally complex authentic oral and written English sources;. Can ask and provide answers with a degree of fluency and spontaneity to a series of questions from the audience after his/her presentation.

Subject Code	ÖV16.02
Subject	Aviation English
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to enhance students' vocabulary with basic aviation terminology and develop the skills to perform service duties in general aviation fields.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the basic aviation terms in English related to the structure of aircrafts, flights, air traffic control and airfields; 2) Can describe in both oral and written form aircrafts, airfields, and flights along with air traffic control unit tasks (TWR, APP, ACC) and the main sections of an airspace;

	<p>3) Understands straightforward aviation texts with a dictionary as needed;</p> <p>4) Can communicate in routine aviation fields;</p> <p>5) Is familiar with the sources that define terminology in the following fields: radiocommunication in aviation, air surveillance, navigation and communications facilities.</p>
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Subject Code	KK16.05
Subject	English Elective (Level B1+)
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to provide the students who have passed a B1 level course with additional knowledge about grammar, enhance their listening, reading, writing and speaking skills, vocabulary and pronunciation. The aim of the subject is to develop a foreign language competence at level B1+ (upper threshold). An awareness of the cultural norms of the target language is increased. The course aims to support the process of lifelong learning where continuity plays a key role. The subject outcomes are based on the level descriptors of the Common European Framework of Reference for Languages.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Can write straightforward connected texts on a range of subjects, including military topics, e.g. descriptions, official letters, summaries and essays based on written and oral clearly signalled argumentative texts in English presenting accumulated factual information; 2) Can clearly express and justify his/her ideas, and participate in group works, e.g. discussions, debates and disputes; 3) Can give a prepared straightforward presentation with some degree of confidence on different topics, including military topics, based on clear written and oral sources in English presenting accumulated factual information; Can ask and provide answers with some degree of confidence to questions from the audience after his/her presentation.

Subject Code	JP16.03
Subject	Communication Psychology**
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to give students knowledge of the terms and concepts related to interpersonal communication. Using theoretical approaches and practical activities the course addresses the way a communication situation and people themselves (incl. their attitudes, values and state of mind) affect interpersonal communication, as well as the aspects that favour and inhibit effective communication. The students also analyse what type of communicators they themselves are.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Understands the mechanisms of interpersonal communication at individual and group level;

	<ol style="list-style-type: none"> 2) Knows how to handle conflict situations and manage relationships; 3) Is able to identify and recognize different means of influence; 4) Knows different communication techniques (e.g. active listening, self-assertion, communication at adult level) and is able to apply them to effective communication; 5) Is able to analyse him/herself as a communicator.
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MILITARY LEADERSHIP MODULE		Volume 46-49 ECP
Objective	The aim of the military leadership module is to provide students with knowledge of the fundamentals of aviation and functioning of the air force in peacetime and wartime conditions in both the national and multinational Integrated NATO Air Defence System for performing subunit service duties. After completion of the module students will have knowledge and basic skills of wartime infantry platoon command in the main types of combat operations.	
Outcomes	<p>After completion of this military leadership module the student:</p> <ol style="list-style-type: none"> 1) Understands the role of military leader and is aware of the specifics of leadership qualities and principles in the air force; 2) Knows the legislation regulating aviation, the differences between civil and military aviation and forms of cooperation between them; 3) Knows the principles of air warfare and air defence assets, and is able to associate them with the doctrines and capabilities of the air forces in other countries; 4) Knows the structure, tasks and command principles of the Estonian Air Force; knows the tasks of their unit within the Estonian Air Force and their role as part of air campaigns in the Integrated Air Defence System; 5) Knows the planning stages of air operations and is able to plan and lead the activities of their unit in the overall Air Force Structure; 6) Know the structure of airfields and the principles of operation procedures and flight planning; 7) Knows the work organisation of the air traffic service and tasks of the aeronavigation data service, taking air traffic safety fundamentals into consideration; 8) Can plan, prepare and lead the combat activities of an infantry platoon, taking into account its combat capabilities and following the principles of modern combat. 	
Assessment: the module is assessed on the basis of subjects.		

Code	Subject	Volume	Assessment	Semester
TK16.01	Fundamentals of Combat Operations	3 ECP	ND	I
ÕV16.03	Military Leadership in the Air Force	2 ECP	ND	V
ÕV16.04	Fundamentals of Aviation Law*	4 ECP	D	II
ÕV16.05	Airfields*	3 ECP	ND	IV
ÕV16.06	Air Traffic Management*	2 ECP	ND	V
ÕV16.07	Operation Procedures and Flight Planning*	3 ECP	ND	IV

ÕV16.08	Fundamentals of Aviation Safety*	3 ECP	ND	II
ÕV16.09	Aeronavigation Data Service*	2 ECP	ND	IV
ÕV16.10	Flight Search and Rescue*	2 ECP	ND	V
ÕV16.11	Airpower Theory and Air Operations	4 ECP	D	IV
ÕV16.12	Fundamentals of NATO Air Defence System Command and Combat Activities	4 ECP	D	V
ÕV16.13	Fundamentals of Estonian Air Force Units Command and Combat Activities	4 ECP	D	V
TK15.02	Fundamentals of Infantry Platoon Tactics and Command	10 ECP	ND	II
ST16.05	Institutions and Tasks of Internal Security*	3 ECP	ND	IV

Subjects in the module (except the elective subject**) are obligatory for regular full-time students. The module is completed according to the progression of subjects as prescribed by the ENDC. The subjects* are completed in accordance with the progression of subjects of the Estonian Aviation Academy.

Subject Code	TK16.01
Subject	Fundamentals of Combat Operations
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge necessary to apply manoeuvre warfare principles when planning platoon and company combat activities.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the tactical enemy's combat power up to brigade level and its application principles in the main types of combat; 2) Understands the nature, extent and levels of warfare and the connections between them; 3) Is able to name the subdivision of the battlespace and functions of its parts, can explain the purpose of the activities and links between them; 4) Knows the functions of combat and their roles in the fulfilment of basic functions, and is able to explain the meaning of such functions; 5) Knows the composition of manoeuvre units and is able to form combat elements based on a given task and structure; 6) Knows the fundamental principles of planning and subdivision of tactical land activities and can describe them using tactical verbs; 7) Knows the subdivision of the decision-action cycle and the role of a commander in it; 8) Understands the fundamentals of manoeuvre warfare and is able to describe its principles and application opportunities;

Subject Code	ÕV16.03
Subject	Military Leadership in the Air Force
Volume	2 ECP

Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the role and characteristics of a military leader and leadership principles in the air force. On completion of the subject the student will understand the specifics of the role of a military leader in the air force and the need to adapt their activities and leadership to a service environment.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Understands the role and responsibilities of a military leader when performing service duties; 2) Knows the leadership characteristics and measures of a military leader; 3) Is able to explain the links between leadership and organisational culture; 4) Knows the military leader's specific role in the air force; 5) Is able to describe the appropriate characteristics of a leader and leadership measures considering the specifics of air force units; 6) Is able to describe their strengths and weaknesses as a military leader and understands the need for self-improvement.

Subject Code	ÕV16.04
Subject	Fundamentals of Aviation Law*
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of Estonian and international aviation legislation. After completion of the subject students will understand aviation-related tasks, areas of responsibility and the specifics of civilian and military aviation in various agencies, taking guidance from the relevant legislation.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows Estonian and international legal acts (of both public and private law) regulating aviation, and their areas of use; 2) Knows the terminology and concepts of aviation used in relevant legislation; 3) Is able to name and categorize the legal acts regulating the service duties of various aviation specialists (incl. pilots, air traffic controllers, aircraft maintenance specialists); 4) Knows the aviation-related tasks of Estonian agencies and the use of legislation in their work; 5) Knows the legal acts regulating military aviation and the procedures of national air traffic control clearance handling;

Subject Code	ÕV16.05
Subject	Airfields*
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–

Objectives	The aim of the subject is to give students knowledge of the international requirements for the planning and construction of aerodromes, of the basic structure of airfields and their components and of concepts related to airfields. The student will have understanding of communications, navigation, surveillance, air traffic control, meteorological and recording devices and their principles of operation as used in airfields.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the set of international requirements for airfield planning and construction; 2) Knows the basic structure of airfields and can describe the essential components of modern airfields; 3) Knows the concepts related to airfields; 4) Understands the working principles communications, navigation, surveillance, air traffic control, meteorological and recording devices of airfields; 5) Knows the properties and parameters of landing systems.

Subject Code	ÕV16.06
Subject	Air Traffic Management*
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the aviation environment, principles of air traffic control and its working methods. After completion of the subject students will understand various air traffic services and their links with air traffic organisation and the responsibilities involved in such services.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the tasks, structure and organisation of the air traffic service; 2) Knows the structure of Estonian airspace and can relate it to the tasks of air traffic control units and flight rules; 3) Knows the structure, organisation and tasks of Estonian air traffic control units (TWR, APP, ACC), e.g. passing flight information to pilots, advising on air traffic, air traffic control, alert service; 4) Knows the systems used in air traffic control and their tasks (ground communication, air-ground data communication, ground-ground data exchange, navigation and air traffic control centre systems, etc.); 5) Knows the structure and tasks of the aeronautical information department of the Estonian Air Navigation Services.

Subject Code	ÕV16.07
Subject	Operation Procedures and Flight Planning*
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	1. Operation Procedures (2 ECP, IV, D) 2. Flight Planning (1 ECP, IV, ND)
Objectives	The aim of this subject is to give students knowledge of the technical regulations, possibilities and limitations for flights and flight planning. The subject also introduces handling aircraft under ordinary and extraordinary conditions. In addition, the subject addresses various factors influencing

	flying and emergency procedures, and provides the skills for planning flights.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Understands the concepts of mass and balance, knows the requirements for the mass and centre of gravity of aircrafts and the principles of calculating their centre of gravity; 2) Is able to determine the location of an aircraft's centre of gravity, knows the correct procedures for cargo handling and is able to compile and read cargo inventories; 3) Knows the concepts necessary for evaluating aircraft capability, understands the parameters related to aircraft capability and the limitations resulting from such evaluation; 4) Knows the impact of aerodynamics on operating aircrafts, is able to resolve tasks related to the start-up, take-off, route and landing of aircrafts; 5) Knows the requirements for aircraft operation under ordinary and extraordinary circumstances, and factors influencing flying and emergency procedures.

Subject Code	ÖV16.08
Subject	Fundamentals of Aviation Safety
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of flight safety (incl. the safety management system), risk evaluation and risk management to ensure the safety of air traffic.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the basic concepts and terminology of the aviation safety management system (SMS); 2) Knows the purposes and fundamentals of operating the aviation safety management system (SMS), as well as the concepts behind the development of the safety management system; 3) Is able to identify and classify threats and risks and the set of priorities to manage them; 4) Knows the fundamentals of aviation risk management and the application of relevant measures to ensure an acceptable level of flight safety; 5) Knows the roles of the responsible persons in air safety management organisations and the planning and application methods of safety management in various areas of aviation;

Subject Code	ÖV16.09
Subject	Aeronavigation Data Service*
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the aeronavigation data service and its links with different areas of aviation. The subject also

	addresses the following issues: the transfer and publication of aeronavigation data, types of data transfer and validation requirements in the Tallinn Flight Information Region.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the system of aeronavigation data service and understands its links with other areas of aviation; 2) Knows the principles and information publications of the aeronavigation data service; 3) Knows the structure of the Aeronautical Information Publication and is able to find information therein; 4) Is familiar with the messages used in the aeronavigation data service and can use them appropriately.

Subject Code	ÕV16.10
Subject	Flight Search and Rescue*
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the working principles of the search and rescue service in Estonia and of search and rescue activities in the event of flight accidents. The subject also addresses safety investigation, airfield rescue activities (incl. search and rescue activities in the event of aircraft accidents) and sounding the alarm.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the legislation related to the search and rescue service; 2) Knows the structure of the search and rescue service and air rescue procedures in the Republic of Estonia; 3) Knows the principles of air rescue in Estonia and search and rescue procedures in the event of aircraft accidents; 4) Is able to name the additional services and equipment involved in search and rescue works; 5) Is able to distinguish between flight accidents and knows the procedures of safety investigation in the event of flight accidents, serious flight incidents and flight incidents.

Subject Code	ÕV16.11
Subject	Airpower Theory and Air Operations
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	<ol style="list-style-type: none"> 1. Airpower Theory (2 ECP, II, D); 2. Types of Air Operations (2 ECP, II, D).
Objectives	The aim of this subject is to give students knowledge of airpower theory and the skills to link this theory with the principles of air warfare. The subject also aims to introduce the subdivision and principles of NATO air operations. The subject aims to link the theoretical ideas of airpower with the tasks, assets and weapons of air warfare.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to explain the main theoretical concepts of airpower and knows the main authors of such theories; 2) Knows the major air campaigns in history and is able to relate them to

	<p>the main theoretical concepts;</p> <p>3) Is able to identify and characterize air operations and can understand their potential applications;</p> <p>4) Can name the assets used in air warfare, their applicability and tasks, and is able to explain the impact of various technologies on air operations;</p> <p>5) Can name the armament used in aircrafts (air-air and air-ground) and is able to relate the use of weapons to the concepts of airpower theory.</p>
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Subject Code	ÕV16.12
Subject	Fundamentals of NATO Air Defence System Command and Combat Activities
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the structure of the NATO Integrated Air Defence System and of the planning and command principles of air operations. On completion of the subject the student will have knowledge of the planning model of NATO air operations, including the use of airspace control measures.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to explain the structure of the NATO Integrated Air Defence System and its tasks according to levels of command; 2) Knows the general planning and command principles of NATO air operations and knows the relevant operational level documentation; 3) Is able to name and explain the meaning of terms related to the air operations planning model (ATO-cycle); 4) Is able to explain airspace control measures and describe their application opportunities; 5) Can read and interpret air tasking orders and airspace control orders; 6) Is able to name the links between types of air operations and airspace control measures.

Subject Code	ÕV16.13
Subject	Fundamentals of Estonian Air Force Unit Command and Combat Activities
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the tasks, capabilities and assets of the Estonian Air Force. It also aims to provide an overview of the activities of Air Force subunits, e.g., force protection and logistical support, and the principles of the execution of air operations. In addition, the subject addresses Estonian Air Force cooperation within the Baltic Air Surveillance and Control System (BALTNET) and within the NATO Integrated Air Defence System.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to explain the tasks and capabilities of the Estonian Air Force; 2) Is familiar with the equipment used in the Estonian Air Force and

	<p>knows the structure of the Ämari Airbase;</p> <ol style="list-style-type: none"> 3) Knows the tasks and working procedures of Estonian Air Force subunits; 4) Knows the principles of force protection in the Estonian Air Force and is able to explain the activities of his/her units (incl. air defence); 5) Is able to describe the fundamentals of logistical support and air policing for planning host nation activities in the airfield; 6) Is able to describe the principles of logistical support and force protection when planning subunit activities. 7) Is able to describe the tasks of the Estonian Air Force within the Baltic Air Surveillance and Control System (BALNET) and within the NATO Integrated Air Defence System; 8) Is familiar with the contracts regulating international cooperation and knows the relevant documentation on operational procedures.
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Subject Code	TK15.02
Subject	Fundamentals of Infantry Platoon Tactics and Command
Volume	10 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the planning and command of infantry platoon combat activities. It also aims to provide students with the leadership experience to be able to perform the duties of a wartime platoon commander.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Can analyse the combat power of a tactical enemy based on a higher commander's order to plan infantry platoon combat activities; 2) Is able to plan the activities of an infantry platoon (incl. under special conditions) and draft operation orders; 3) Is able to plan combat support and combat service support elements for infantry platoon combat activities; 4) Is able to lead an infantry platoon in different types of combat.

Subject Code	ST16.05
Subject	Institutions and Tasks of Internal Security*
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the structure, tasks and command systems in the field of internal security, and of mutual interaction between institutions, with the aim of enhancing cooperation between these institutions in the area of government of the Estonian Defence Forces, the Ministry of Internal Affairs and the Ministry of Social Affairs.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the tasks, structure, command systems and areas of responsibility of “soft power” (rescue services, ambulances and hospitals) and “hard power” (police, security police) in the field of internal security;

	<p>2) Is able to analyse emergency situations, evaluate the resources needed for search and rescue and law enforcement works, can analyse possible threats and is able to forecast potential escalation of the situation and offer a possible solution to it;</p> <p>3) Understands the roles, tasks and information dissemination principles of various institutions and management levels of national defence and internal security in the management of search and rescue and internal security incidents;</p> <p>4) Knows the legislation and practices regulating cooperation related to the management of search and rescue works and internal security incidents.</p>
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TECHNOLOGY MODULE		Volume 42-45 ECP
Objective	The aim of this module is to give students an understanding of aircrafts, aerodynamics and of the equipment and technologies used in aviation. In order to achieve this aim and obtain sufficient knowledge in the field of technology subjects the cadets are provided with necessary knowledge of sciences.	
Outcomes	<p>After completion of the technology module the student:</p> <ol style="list-style-type: none"> 1) Is familiar with modern means of information technology and has computer skills for fulfilling his service duties; 2) Understands the importance of sciences in the officer's profession, has the thorough knowledge of military technology and technical equipment and can apply scientific models in the analysis and resolution of problems; 3) Knows the subdivision and structure of aircrafts and knows the types of aerodynamic drag that influence aircrafts; 4) Understands the fundamentals of aeronavigation principles of radiocommunication in aviation, taking into consideration the impact of aviation meteorology; 5) Is able to make calculations and measurements of areonavigation; is aware of various navigation systems and equipment; 6) Knows air surveillance radar technology and airfield equipment; 7) Is familiar with maps and digital spatial data used in the Estonian Defence Forces; 8) Is able to provide first aid. 	
Assessment: the module is assessed on the basis of subjects.		

Code	Subject	Volume	Assessment	Semester
LT16.02	Military Technology I: Tactical Communication and Electronic Warfare	2 ECP	ND	I
LT16.03	Military Technology II: Technical Equipment and Other Equipment of a Tactical Unit	2 ECP	ND	II
LT16.04	Military Technology III: Land Based Platforms	2 ECP	ND	II
LT16.05	Military Technology IV: Weaponry	2 ECP	ND	II

LT16.06	Military Technology V: Optronics and Communication Equipment	2 ECP	ND	III
LT16.07	Military Technology VI: Field Electrical Wiring	2 ECP	ND	IV
LT14.06	Models of Exact Sciences in Military	2 ECP	D	I
LT16.08	Topography and Geoinformation Systems	3 ECP	D	I–II
TK16.21	Medical Studies	3 ECP	ND	I–II
ÕV16.14	Structure of Aircrafts*	3 ECP	ND	III
ÕV16.15	Fundamentals of Aeronavigation*	4 ECP	ND	IV
ÕV16.16	Aviation Meteorology*	3 ECP	D	II
ÕV16.17	Aerodynamics*	4 ECP	D	III
ÕV16.18	Radiocommunication in Aviation*	2 ECP	ND	II
ÕV16.19	Air Surveillance*	3 ECP	D	IV
ÕV16.20	Airfield Technical Equipment*	3 ECP	ND	V
LT16.09	Applied Military Technology Research**	3 ECP	ND	IV
JP16.07	Quantitative Data Analysis*	3 ECP	ND	IV

Subjects in the module (except the elective subject**) are obligatory for regular full-time students. The module is completed according to the progression of subjects as prescribed by the ENDC. The subjects* are completed in accordance with the progression of subjects of the Estonian Aviation Academy.

Subject Code	LT16.02
Subject	Military Technology I: Tactical Communication and Electronic Warfare
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the means of communication equipment, communication networks and communication requirements used at tactical level in the Estonian Defence Forces. The subject also aims to provide the skills necessary to support the combat activity of a tactical unit, to plan and command electronic warfare.
Outcomes of the Subject	After completion of the subject the student: 1) Can evaluate antenna parameters, transmitter-receiver balance and distance of radio communication; 2) Understands the types of communications networks and their application possibilities in different types of combat; 3) Is able to evaluate the limitations caused by the enemy's electronic warfare capability; 4) Can install wire communication network.

Subject Code	LT16.03
Subject	Military Technology II: Technical Equipment and Other Equipment of a Tactical Unit
Volume	2 ECP

Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge to understand the working principles of the electrical and mechanical tools that are part of an infantry company's standard equipment. The subject also provides the skills to perform level 1 and level 2 equipment maintenance and repair.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is able to use theoretical models and formulae for solving tasks related to elasticity, friction, rotation and deformation; 2) Knows the technical specifications and tactical data of the technical equipment used in a company; 3) Is able to use the electrical and mechanical assets used in a company; 4) Is able to plan and organise maintenance at levels 1 and 2 of the technical parts of standard equipment.

Subject Code	LT16.04
Subject	Military Technology III: Land Based Platforms
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge to use the land-based platforms of an infantry company. The subject also provides the skills to perform level 1 and level 2 maintenance and repair work for such equipment.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is able to use the theoretical models and formulae for solving tasks related to transport, winching and towing; 2) Knows the structure of a battalion's logistical support and the technical specifications, tactical applications and capability of vehicles used; 3) Knows the field repair principles of wheeled transport equipment and maintenance thereof at levels 1 and 2; 4) Can organise the winching and towing of transport equipment.

Subject Code	LT16.05
Subject	Military Technology IV: Weaponry
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the working principles of the weaponry of an infantry company. The subject also provides the skills to perform level 1 and level 2 maintenance and repair work for company weaponry.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is able to evaluate the volume of energy released from explosive

	<p>substances;</p> <ol style="list-style-type: none"> 2) Is able to analyse the force, inertia and velocity of a bullet caused by the internal ballistics of a weapon; 3) Can evaluate the effective firing of weapons; 4) Knows the technical specifications and tactical data of the weapons used in a company; 5) Knows the life cycle of company weaponry and is able to plan and carry out level 1 and level 2 weaponry maintenance works.
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Subject Code	LT16.06
Subject	Military Technology V: Optronics and Communication Equipment
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the optronics and communication equipment of a company and their structure. The subject also provides the skills to perform level 1 and level 2 maintenance and repair works of such equipment.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to use the theoretical models and formulae for solving the tasks related to the travelling and breaking of light; 2) Knows the technical specifications and tactical data of the optronic and communication equipment used in a company; 3) Knows how to plan and carry out level 1 and level 2 maintenance works of optronic and communication equipment; 4) Can carry out performance checks on equipment and identify problems.

Subject Code	LT16.07
Subject	Military Technology VI: Field Electrical Wiring
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to give students knowledge of the generators and field power networks used at tactical level, plus their installation.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Can carry out current intensity and voltage measurements of field networks using an ammeter, voltmeter and network analyser; 2) Can follow the appropriate safety regulations when working with electrical devices; 3) Is able to analyse the main characteristics of a circuit diagram (voltage, current intensity, obstruction, the cross-sectional area of a cable, wattage and operation) based on theoretical formulae; 4) Can classify faulty devices with regard to repair and maintenance principles and knows the repair, maintenance and life cycles of electrical devices;

Subject Code	LT14.06
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Subject	Models of Exact Sciences in the Military
Volume	2 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to reinforce students' knowledge of the sciences and teaches the use of scientific models to solve problems in the military field. Topics are related to the effects of fire, radiology, materials science, strength of materials, foundations of the electromagnetic spectrum, as well as probability theory to predict activities on the battlefield.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Can use mathematical measures to resolve military problems; 2) Can estimate the effects of fire on people and technical equipment based on calculations; 3) Can estimate the impact of ionizing radiation on people, technical equipment, and the surrounding environment; 4) Can classify the parts and application opportunities of the electromagnetic spectrum; 5) Can apply probability theory for efficient action on the battlefield; 6) Is able to compare the properties of technical and other equipment based on the strength of the materials used.

Subject Code	LT16.08
Subject	Topography and Geoinformation Systems
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	1. Military Topography (1.5 ECP, I, ND) 2. Geoinformation Systems (1.5 ECP, II, D)
Objectives	The aim of this subject is to give students knowledge of the maps and digital spatial data used in the Estonian Defence Forces, and the skills necessary to evaluate the tactical impact of terrain and to plan combat activities using different maps at platoon and company levels.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is able to use the standard paper maps and their legend (including satellite photos and aerial photos) used by the Estonian Defence Forces and can use them for orientation in terrain and for measuring distances and heights; 2) Is able to draw up the sketch of a landscape; 3) Is able to use maps to analyse the impact of terrain on the tactical activities of units up to company level; 4) Is able to use NATO tactical symbols and mark enemy units in company operation plans; 5) Using guidelines and the ArcGIS software can use the raster maps (scales 1:50 000, 1:100 000, 1:10 000) and vector maps (scale 1:50 000) of the Estonian Defence Forces and other maps available on the Internet to compile the maps with a given content and scale and to carry out measurements; 6) Knows the major coordination systems used in NATO and in Estonia and can define their specifications and convert between different coordination systems; 7) Can define the following concepts: spatial data, geoinformation

	system, map program, vector map, raster map, attribute data, and height model, and can describe the possible applications of geoinformation systems at platoon and company levels.
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Subject Code	TK16.21
Subject	Medical Studies
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	1. Medical Studies I (1 ECP, I, ND) 2. Medical Studies II (2 ECP, II, ND)
Objectives	The aim of this subject is to give students the basic knowledge and skills necessary to administer medical aid and provide healthcare to casualties of combat and accidents.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is able to render first aid in peacetime and to combat casualties in various combat situations; 2) Is able to recognize the special impact of NBC weapons on people and equipment and can employ appropriate first aid measures and personal protection equipment; 3) Knows the main principles of the medial tactics in the Estonian Defence Forces on land and at sea, and based on such is able to organise medical aid; 4) Is able to carry out tactical combat casualty care (TCCC) training.

Subject Code	ÕV16.14
Subject	Structure of Aircrafts
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to provide a basic knowledge of the construction of aircrafts.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the classification of aircrafts by construction; 2) Knows the construction and basic elements of airframes; 3) Knows the systems used in aircrafts; 4) Knows the theoretical foundations of the functioning of aircraft systems; 5) Knows and understands the working principles of aircraft command systems.

Subject Code	ÕV16.15
Subject	Fundamentals of Aeronavigation*
Volume	4 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to provide students with the knowledge of aeronavigation, modern navigation equipment and systems, and their functioning principles. The subject gives students knowledge of aviation

	navigation with calculation and map-reading skills.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the fundamentals of aeronavigation; 2) Is able to carry out standard navigation calculations and measurements and use maps for performing navigational tasks; 3) Has an overview of modern radionavigation equipment and systems and their possible applications and limitations; 4) Knows satellite navigation technologies and the GNSS global positioning system; 5) Knows the development trends of satellite navigation in aviation and their possible applications in airfields. 6) Knows the concepts of flight planning and fuel planning, can read maps and interpret weather forecasts, plan routes and use a slide-rule; 7) Is able to file and read both operational and ICAO flight plans.

Subject Code	ÖV16.16
Subject	Aviation Meteorology*
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to provide students with a knowledge of aviation meteorology and the skills for taking meteorological data into account in flight planning.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Knows the composition of the Earth's atmosphere and its natural processes; 2) Knows the impact of various radiation flows on weather and climate; 3) Knows the properties of atmospheric pressure and various synoptic processes caused by it; 4) Is able to interpret different symbols and data on meteorological maps; 5) Is able interpret important weather forecasts with reference to aviation (METAR-SPECI, TAF, AIRMET, SIGMET); 6) Is aware of the meteorological phenomena influencing aviation; 7) Is able to find important weather data of flight routes or airfields on the Internet.

Subject Code	ÖV16.17
Subject	Aerodynamics*
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is give students a knowledge of aerodynamics in the context of practical aviation at a basic engineering level necessary to understand the nature of the flying process and forces influencing aircrafts.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to describe the forces influencing aircrafts in a qualitative manner; 2) Can name various factors influencing the balance, stability and performance of an aircraft and analyse these factors;

	<ol style="list-style-type: none"> 3) Is able to describe the aerodynamic forces influencing the take-off and landing of an aircraft; 4) Is able to describe and explain the working principles of a propeller and the performance of an aircraft at supersonic and transonic speeds; 5) Is able to describe the principles of negative and positive overload and their impact on aircrafts and pilots.
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Subject Code	ÖV16.18
Subject	Radiocommunication in Aviation*
Volume	2 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of the basic concepts, general rules and applications of radiocommunication in aviation.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Can name the ICAO documents regulating air traffic service; 2) Is able to describe the general rules and procedures of radiocommunication and knows the standard words and phrases used; 3) Can describe the procedures in emergency and urgency situations and can name traffic notification classes of air traffic communication; 4) Is familiar with the call signs and codes used in air communication; 5) Can compile a dialogue based on a given radiocommunication situation in aviation.

Subject Code	ÖV16.19
Subject	Air Surveillance
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of various radars used in aviation, their working principles and properties. The subject also provides the basic skills to analyse the spectrum of radar signals.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Understands what radars are and can classify them based on various properties; 2) Understands the application and derivation of the concept of decibels; 3) Knows the signal parameters of radars; 4) Knows the meaning of radio frequency lines; 5) Is able to distinguish between different radar antennas according to their structure, technical data and application possibilities; 6) Knows the different frequencies of transmitters; 7) Knows the working principles of plus radars; 8) Knows the most common ways of signal processing; 9) Is familiar with various secondary and passive systems; 10) Knows the basic concepts of electronic warfare (EW) and knows how to apply the passive system in electronic warfare.

Subject Code	ÖV16.20
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Subject	Airfield Technical Equipment*
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of ground services of airfields, including work processes, and technical equipment for the organisation of work in airfields.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the types and subdivision of the technical equipment used in airfields; 2) Knows the purposes and working principles of the technical equipment used for servicing aircrafts; 3) Is able to describe the organisation of ground services; 4) Is able to name the items of maintenance equipment used in airfields and describe their usage; 5) Understands the purpose of equipment for security.

Subject Code	LT16.09
Subject	Applied Military Technology Research**
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students knowledge of carrying out fundamental and applied research in the field of military technology and to enhance the ability of students to articulate and resolve various technical and technological problems and carry out surveys.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Can define a research problem to resolve an important technical or technological problem in the Estonian Defence Forces; 2) Is able to choose the appropriate research method to solve particular research problems; 3) Can carry out an experiment on a given topic; 4) Can offer solutions to technical or technological problems important for the Estonian Defence Forces; 5) Can compile a research report addressing technical or technological solutions, integrating military and scientific fields.

Subject Code	JP16.07
Subject	Quantitative Data Analysis**
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge and skills for the statistical analyses and statistical summaries of the data collected or presented in multiple ways; The subject aims to develop the students' skills in analysing data and drawing the appropriate conclusions from it.
Outcomes of the Subject	After completion of the subject the student:

	<ol style="list-style-type: none"> 1) Can organise data based on data type; 2) Can critically read published materials with statistical surveys/data (graphs, diagrams); 3) Is able to make statistical analyses, choosing the appropriate descriptive and/or generalizing statistical methods; 4) Is able to draw statistically correct conclusions; 5) Can correctly present obtained results;
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PEDAGOGY ANG RESEARCH MODULE		Volume 21-24 ECP
Objective	The aim of the pedagogy module is to provide students with the skills and knowledge of psychology, pedagogy and research necessary to fulfil the tasks of a leader and teacher. The pedagogy module supports the development of the students' understanding of human psychology and the factors influencing it, as well as of the psychological aspects of the combat capability and leadership of a unit. Students receive preparation for organising military training and solving problems that might arise in a unit up to infantry platoon size.	
Outcomes	<p>After completion of this module the student:</p> <ol style="list-style-type: none"> 1) Knows the main concepts of psychology and applications of psychology in the Estonian Defence Forces and in his/her future service; 2) Knows the main concepts of pedagogical psychology, andragogy, military pedagogy and didactics. Is able to analyse and apply different purposeful teaching and evaluation methods; 3) Is capable of planning, preparing, executing and evaluating training and give relevant feedback. In doing so the student is able to take into consideration the training manuals and regulations of the Estonian Defence Forces; 4) Is able to see the interdisciplinary connections between the areas of research and studies of an officer and their areas of application in his or her profession; 5) Is able to formulate research questions using specialised literature and compile representative samples for scientific research; 6) Knows the main data collection and statistical data analysis methods; 7) Is able to collect relevant data based on his or her research problem and objective, can analyse collected data and draw relevant conclusions. 	
Assessment: the module is assessed on the basis of subjects.		

Code	Subject	Volume	Assessment	Semester
JP16.21	Basic Instructor Course	3 ECP	D	I
JP16.22	Applications of Psychology in the Defence Forces	4 ECP	ND	I–II
JP16.13	Fundamentals of Scientific Research	4 ECP	D	III-IV
JP16.14	Communicative Teaching Methods*	3 ECP	ND	IV
VT14.01	Final Paper	10 ECP	D	IV–VI

Subjects in the module (except the elective subject**) are obligatory for regular full-time students. The module is completed according to the progression of subjects as prescribed by the ENDC.

Subject Code	JP16.21
Subject	Basic Instructor Course
Volume	3 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge of training methodology up to platoon-sized units and skills for how to carry out lessons on handling technical equipment and conduct individual training. The course aims to develop the students' communication, presentation and leadership skills.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the principles of didactics based on andragogy; 2) Is able to carry out lessons on handling technical equipment; 3) Is able to carry out individual training using appropriate teaching methods; 4) Knows the methods for teamwork; 5) Knows evaluation methods used for evaluating platoon-sized units.

Subject Code	JP16.22
Subject	Applications of Psychology in the Defence Forces
Volume	4 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to provide students with knowledge of the applications of psychology in the military and the skills necessary to sustain their own and their subordinates' combat capability and efficient performance. Acquired knowledge and skills support their pedagogical competence in their service.
Outcomes of the Subject	After completion of the subject the student: 1) Knows the main concepts and fields of psychology and can identify psychological characteristics, processes and states and understands their importance for performing his or her service duties; 2) Knows the main trends that affect motivation and human behaviour and can take them into consideration as a military leader; 3) Knows the consequences of distress and combat stress and is able to identify the signs of stress both in himself and his subordinates; 4) Knows the main psychological theories of studying and can take into consideration the psychic regularities that support or hinder studying;

Subject Code	JP16.13
Subject	Fundamentals of Scientific Research
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume,	–

semester, assessment	
Objectives	The aim of this subject is to give students knowledge of the composition of scientific research and requirements set for scientific research, and to introduce them to the experience of writing and presenting scientific research. The subject aims to develop the students' skills in using various data sources, formulating research problems, collecting data, analysing this collected data and drawing the appropriate conclusions from it.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is familiar with research methodology principles and can plan scientific research; 2) Can choose appropriate literature depending on the subject (incl. from databases) and analyse them critically; 3) Can formulate research questions or hypotheses based on the purpose of a research paper; 4) Knows the main data collection methods and can choose the appropriate method depending on the purpose of a research paper; 5) Is able to interpret gathered information and/or data and draw appropriate conclusions; 6) Is able to produce an independent volume of research following correct requirements; 7) Is able to prepare and deliver a public presentation.

Subject Code	JP16.14
Subject	Communicative Teaching Methods*
Volume	3 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of this subject is to give students the knowledge and skills for enhancing their teaching and communication skills, thereby improving readiness to perform the duties of an instructor in future service.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Understands the principles of setting goals for the study process and can formulate learning objectives; 2) Knows active learning methods and uses them in the study process; 3) Understands the importance of feedback and can give feedback on the study activities of fellow students; 4) Understands the significance of attitudes in the study process and can analyse his/her and his fellow students' attitudes towards the study process; 5) Understands the importance of motivation in teaching and studying and in the future application of acquired knowledge; 6) Can reflect and analyse his/her previous learning and teaching experiences and behaviour as a student and teacher, outlining strengths and weaknesses.

Subject Code	VT14.01
Subject	Final Paper
Volume	10 ECP
Assessment	Differentiated assessment
Sub-subjects, volume,	1. Final Paper Seminar I (2 ECP, IV, ND)

semester, assessment	2. Final Paper Seminar II (2 ECP, V, ND) 3. Preliminary Defence (2 ECP, VI, ND) 5. Preliminary Defence (4 ECP, VI, D)
Objectives	The aim of the final paper is to allow students to put all the knowledge acquired throughout their studies into practice by solving a theoretical or empirical research problem related to military matters. With the guidance of a supervisor, students will gain experience in compiling scientific research. Final paper seminars develop the ability to analyze texts through students reviewing each other's research projects.
Outcomes of the Subject	After successful defence of the final paper the student: 1) Is able to formulate research tasks, problems and hypotheses based on associated research tasks on a given topic; 2) Is able to select the appropriate literature and sources for dealing with a given topic and critically use these sources in his/her final paper; 3) Is able to collect data and draw conclusions based on that data, using the appropriate methods and draw conclusions; 4) Is able to evaluate the solution of theoretical, practical and empirical military-related problems based on conclusions; 5) Is able to compile and write up a cohesive piece of scientific research, following the academic requirements for final papers; 6) Is able to explain the statements presented in his/her final paper and defend them in an academic discussion.

SPECIALIZATION MODULE I - AIR OPERATIONS SPECIALTY		Volume 35 ECP
Objective	The aim of this module is to give students first-hand experience of service in various air force subunits. The subject also provides the knowledge and skills for organising the work of the operating units of air operations (squadron or flight) in peacetime and wartime. The module aims to reinforce students' knowledge of their specialisation through practical placements in air force subunits.	
Outcomes	After completion of the air operations specialisation module the student: 1) Knows the tasks and documents regulating the organisation of work in various air force subunits; 2) Knows the subdivisions of air operations, and their planning and execution principles in accordance with NATO doctrines and procedures; 3) Is able to apply his/her knowledge of air operations in the Estonian Air Force subunits within the NATO Integrated Air Defence System; 4) Is able to organise the work of the Estonian Air Force subunits based on national aviation legislation and the principles of NATO air operations; 5) Is able to organise security and force protection measures for air force objects; 6) Is able to organise logistical support and search and rescue services for air force subunits.	
Assessment: the module is assessed on the basis of subjects.		

Code	Subject	Volume	Assessment	Semester
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ÕV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV
ÕV16.22	Planning and Execution of Air Operations	4 ECP	D	VI
ÕV16.23	Practical Placement - Air Operations Specialty	23 ECP	ND	VI

Subjects in the module are obligatory for students completing the specialisation module. The module is completed according to the progression of subjects as prescribed by the ENDC.

Subject Code	ÕV16.21
Subject	Practical Placement - Air Force Subunits
Volume	8 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The subject aims to provide students with first-hand experience in performing the peacetime duties of a junior officer within a radar picket, squadron and flight in air force subunits. It also gives students a comprehensive overview of their future service and the knowledge for selecting a specialisation.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is familiar with the main subunits of the Estonian Air Force (incl. the Ämari Airbase and radar pickets); 2) Is able to perform the host nation support tasks within an airbase squadron; 3) Is able to perform air surveillance and air policing tasks within the crew of the Control and Reporting Centre; 4) Is able to perform air surveillance tasks within an air picket; 5) Is able to coordinate the logistics and force protection of different air force units.

Subject Code	ÕV16.22
Subject	Planning and Execution of Air Operations
Volume	4 ECP
Sub-subjects, volume, semester, assessment	–
Assessment	Differentiated assessment
Objectives	The aim of the subject is to train students in the planning and execution of air operations in accordance with NATO doctrines and procedures. The main emphasis of the subject depends on the student's future post and addresses one of the following issues: Control and Reporting Centre (CRC), Wing Operations Centre (WOC) or Tactical Air Control Party (TACP).
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Knows the planning cycle of air operations and the units involved; 2) Is able to interpret the air tasking orders (ATO) of NATO air operations and based on this organise the work of operating units (CRC or WOC); 3) Is able to interpret NATO airspace control orders (ACO) and organise the work of operating units accordingly;

	<p>4) Has an in-depth knowledge of NATO air policing and air surveillance operations and is familiar with relevant operational documentation;</p> <p>5) Has an in-depth knowledge of flight planning and preparations in the airfield and of the work of a close air support unit and is familiar with relevant documentation.</p>
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Subject Code	ÖV16.23
Subject	Practical Placement - Air Operations Specialty
Volume	23 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the practical placement is to reinforce the skills necessary to organise the work of the operating units of air operations (squadron or flight) in peacetime and wartime. The main emphasis of the practical placement depends on the student's future post.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to organise the execution of air operations and flight activities based on orders from superior control centres of the air force; 2) Is able to apply the procedures regulating Estonian aviation and NATO operational activities; 3) Is able to organise the work of the Control and Reporting Centre (CRC) or airbase operational units; 4) Is able to organise force protection and security for operational units; 5) Is able to organise logistical support for a subunit, taking into account the duties and organizational structure of an air force combat service support group.

SPECIALIZATION MODULE II - AIRFIELD SPECIALTY		Volume 35 ECP
Objective	The aim of the airfield specialisation module is to provide students with first-hand experience working in various air force subunits. It also gives the necessary knowledge and skills to organise the work of airbase units (squadron, flight) in peacetime and wartime. The module aims to reinforce students' knowledge of their specialisation through practical placements in air force subunits.	
Outcomes	<p>After completion of the airfield specialisation module the student:</p> <ol style="list-style-type: none"> 1) Knows the tasks and documents regulating the organisation of work in various air force subunits; 2) Knows the structure and tasks of an airbase, including its operational and support functions; 3) Is able to organise the work of airbase subunits, taking into account flight safety requirements; 4) Can take guidance from host nation support and air policing principles when organising the work of an airbase subunit; 5) Is able to organise force protection and security of airfield objects; 6) Is able to organise logistical support and search and rescue services for airfield subunits. 	

Assessment: the module is assessed on the basis of subjects.

Code	Subject	Volume	Assessment	Semester
ÕV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV
ÕV16.24	Operations and Equipment of an Airbase	4 ECP	D	VI
ÕV16.25	Practical Placement - Airfield Specialty	23 ECP	ND	VI

Subjects in the module are obligatory for students completing the specialisation module. The module is completed according to the progression of subjects as prescribed by the ENDC.

Subject Code	ÕV16.21
Subject	Practical Placement - Air Force Subunits
Volume	8 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The subject aims to provide students with first-hand experience in performing the peacetime duties of a junior officer within a radar picket, squadron and flight in air force subunits. It also gives students a comprehensive overview of their future service and the knowledge for selecting a specialisation.
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is familiar with the main subunits of the Estonian Air Force (incl. the Ämari Airbase and radar pickets); 2) Is able to perform the host nation support tasks within an airbase squadron; 3) Is able to perform air surveillance and air policing tasks within the crew of the Control and Reporting Centre; 4) Is able to perform air surveillance tasks within an air picket; 5) Is able to coordinate the logistics and force protection of different air force units.

Subject Code	ÕV16.24
Subject	Operations and Equipment of an Airbase
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to give students the knowledge of the tasks and capabilities of the Ämari Airbase. The focus of the subject depends on the future post of a student, and involves different activities supporting aviation (e.g. communication, logistics, airfield maintenance, air traffic control, and search and rescue).
Outcomes of the Subject	After completion of the subject the student: <ol style="list-style-type: none"> 1) Is familiar with the infrastructure of the Ämari Airbase, and the capabilities and functions of its equipment; 2) Knows the command structure of the Ämari Airbase and the tasks and

	<p>capabilities of its units;</p> <p>3) Knows the specifics of the host nation airfield and supporting activities;</p> <p>4) Knows the specifics of the NATO air policing airfield and the activities supporting aviation;</p> <p>5) Has an in-depth knowledge of one of the supporting activities of aviation (e.g. communications, logistics, airfield maintenance, air traffic control, and search and rescue).</p>
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Subject Code	ÕV16.25
Subject	Practical Placement - Airfield Specialty
Volume	23 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The subject aims to provide students with the skills to organise the work of an airbase unit (squadron or flight) in peacetime and wartime. The main emphasis of the practical placement depends on the student's future post.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to perform his/her service duties within the unit of an airfield (e.g. search and rescue service, maintenance of air traffic areas, air cargo and passenger terminals); 2) Is able to organise the work of one of the types of airfield units; 3) Is able to coordinate the work of an air unit and airfield service; 4) Is able to organise the force protection and security for airfield objects based on the principles of a military base defence; 5) Is able to organise logistical support for a subunit, taking into account the duties and organizational structure of an air force combat service support group.

SPECIALISATION MODULE III – AIR SURVEILLANCE SPECIALTY		Volume 35 ECP
Objective	The aim of the air surveillance specialisation module is to provide students with first-hand experience, knowledge and skills to organise the work of air surveillance operating units (radar pickets or flights) in peacetime and wartime. The module aims to reinforce students' knowledge of their specialisation through practical placements in air force subunits.	
Outcomes	<p>After completion of the air surveillance module the student:</p> <ol style="list-style-type: none"> 1) Knows the tasks and documents regulating the organisation of work in various air force subunits; 2) Knows the planning and execution principles of air surveillance operations and radar work in accordance with the NATO doctrine and procedures; 3) Can apply his/her knowledge of air surveillance when organising the work of Estonian Air Force subunits; 4) Is able to organise the work of an air surveillance subunit in accordance with national and NATO-level principles of integrated air defence; 5) Is able to organise the force protection and security for air surveillance objects; 	

	6) Can organise the logistical support and search and rescue of air surveillance subunits.
Assessment: this module is assessed on the basis of subjects.	

Code	Subject	Volume	Assessment	Semester
ÕV16.21	Practical Placement - Air Force Subunits	8 ECP	ND	IV
ÕV16.26	Air Surveillance Operations and Technology	4 ECP	D	VI
ÕV16.27	Practical Placement - Air Surveillance Specialty	23 ECP	ND	VI

Subjects in the module are obligatory for students completing the specialisation module. The module is completed according to the progression of subjects as prescribed by the ENDC.

Subject Code	ÕV16.21
Subject	Practical Placement - Air Force Subunits
Volume	8 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The subject aims to provide students with first-hand experience in performing the peacetime duties of a junior officer within a radar picket, squadron and flight in air force subunits. It also gives students a comprehensive overview of their future service and the knowledge for selecting a specialisation.
Outcomes of the Subject	After completion of the subject the student: <ul style="list-style-type: none"> 1) Is familiar with the main subunits of the Estonian Air Force (incl. the Ämari Airbase and radar pickets); 2) Is able to perform the host nation support tasks within an airbase squadron; 3) Is able to perform air surveillance and air policing tasks within the crew of the Control and Reporting Centre; 4) Is able to perform air surveillance tasks within a radar picket; 5) Is able to coordinate the logistics and force protection of different air force units.

Subject Code	ÕV16.26
Subject	Air Surveillance Operations and Technology
Volume	4 ECP
Assessment	Differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The aim of the subject is to give students the knowledge of the specifics of military radars and of the work organisation of radars or air surveillance flights. The focus of the subject depends on the future post of a student, and involves different activities supporting air surveillance tasks (e.g. operations, communications, logistics, radar maintenance).

Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is familiar with the radars used in the Estonian Air Force and their technical and operational capabilities; 2) Knows the basic principles of using radars in electronic warfare; 3) Know the principles of air surveillance operations in the NATO Integrated Air Defence System; 4) Knows the operational and technical aspects of organising the work of radar pickets; 5) Has an in-depth knowledge of the activities supporting air surveillance (e.g. operations, communications, logistics, and radar maintenance).
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Subject Code	ÕV16.27
Subject	Practical Placement - Air Surveillance Specialty
Volume	23 ECP
Assessment	Non-differentiated assessment
Sub-subjects, volume, semester, assessment	–
Objectives	The subject aims to provide students with the skills for organising the work of an air surveillance unit (radar picket or flight) in peacetime and wartime. The main emphasis of the practical placement depends on the student's future post.
Outcomes of the Subject	<p>After completion of the subject the student:</p> <ol style="list-style-type: none"> 1) Is able to perform air surveillance tasks within Control and Reporting Centre (CRC) or radar picket; 2) Is able to organise the work of an air surveillance subunit in accordance with orders from superior command units of the air force; 3) Is able to take guidance from Estonian and NATO legislation and procedures of air surveillance when performing his/her service duties; 4) Is able to organise the force protection and security for air surveillance units; 5) Is able to organise logistical support for a subunit, taking into account the duties and organizational structure of an air force combat service support group.

**Practical Training in the Professional Higher Education Curriculum of the Estonian
National Defence College
Military Leadership for Air Force (Reg. No. 120243)**

Pursuant to subsection 3(8) of the Higher Education Standard, the volumes and percentages of practical training in the curriculum of professional higher education (15% of the total volume of the curriculum) are as follows.

The volume of practical subjects in main specialty and in specialisation

Code	Subject	Volume	Volume of practical training
TK15.02	Fundamentals of Infantry Platoon Tactics and Command	10 ECP	3 ECP
JP16.21	Basic Instructor Course	3 ECP	1 ECP
ÕV16.21	Practical Placement - Air Force Subunits	8 ECP	8 ECP
ÕV16.23	Practical Placement - Airfield Specialty	23 ECP	23 ECP
ÕV16.25	Practical Placement - Air Surveillance		
ÕV16.27	Specialty		
Total volume of practical training			35 ECP
Percentage of practical training in curriculum (180 ECP)			~ 19%