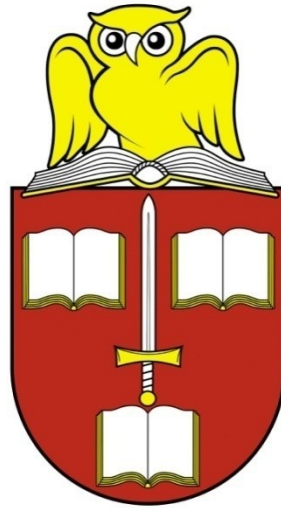


**Armed Forces Academy
of General Milan Rastislav Stefanik**



DESCRIPTION OF THE STUDY PROGRAM

Military Communication and Information Systems

3rd degree of university studies (daily form)

(SP_24_PhD_VSIS)

**SAPIENTIA, BONUM, PATRIA
WISDOM, GOODNESS, MOTHERLAND**

Liptovský Mikuláš

2022

University name: Armed Forces Academy of General Milan Rastislav Stefanik
The seat of the university: Demanova 393, 031 01 Liptovsky Mikulas
Identification no. of the university: 712000000
Faculty name: central workplace

The authority of the higher education institution for approving the study program:

Council for Quality Assurance

Date of approval of the study program or modification of the study program:

24.08.2022

The date of the last change in the description of the study program:

20.12.2022

Link to the results of the last periodical evaluation of the study program by the university:

Link to the evaluation report for the application for accreditation of the study program according to § 30 of Act no. 269/2018 Coll.:

1. Basic data on the study program

a) *Name of the study program and number according to the register of study programs:*

Military Communication and Information Systems, number: 113100

b) *Degree of higher education and ISCED-F code of education level:*

3rd degree, ISCED-F code: 864

c) *Locations of the study program:*

Armed Forces Academy of General Milan Rastislav Stefanik, Demanova 393, 031 01 Liptovsky Mikulas

d) *Name and number of the study field in which a higher education is obtained by completing the study program, or a combination of two study fields in which a higher education is obtained by completing the study program, ISCED-F codes of the field/fields:*

Defence and Military, study field number: 24, ISCED-F code: 0688

e) *Type of study program: academically oriented, professionally oriented; translator, translator combination (with indication of approvals); teacher, teacher combined study program (with indication of approvals); artistic, engineering, doctoral, preparation for performing a regulated profession, joint study program:*

doctoral student

f) *Awarded academic title:*

doctor („philosophiae doctor", in short „PhD.“)

g) *Form of study:*

full time

h) *In the case of joint study programs, cooperating universities and the definition of which study obligations a student fulfills at which university (§ 54a of the Act on Universities):*

i) Language or languages in which the study program takes place:

Slovak language, English language

j) Standard length of study expressed in academic years:

4 academic years

k) Capacity of the study program (planned number of students), actual number of applicants and number of students :

In the academic year 2023/2024, it is planned to accept a maximum of **2** students.

In academic year 2022/2023:

planned number of students	2
number of applications	0
number of students, who started their studies	0
number of 2nd year students	0
number of 3rd year students	0
number of 4th year students	0

2. Graduate profile and educational goals

a) The university will describe the educational objectives of the study program as the student's abilities at the time of completion of the study program and the main educational outcomes:

Graduate of the third level of higher education in the Military Communication and Information Systems study program demonstrates a systematic understanding of the field and has mastered the skills and methods of scientific research and development of military communication and information systems with an orientation to the development of military and from the point of view of state security (national security) important communication and information systems and their components, modelling and simulation of such systems, including mathematical models.

In accordance with the specific focus of his scientific and research work, he can effectively use methods and algorithms for obtaining, pre-processing, and analysing data from specific sensors, signal processing for efficient and safe data transmission, hypothesis generation methods for decision-making with appropriate quality in stationary and mobile automated systems of command and management.

Graduate is competent to hold command and professional positions at the highest levels of command and control of the armed forces, the Ministry of Defence and in the joint staffs and structures of NATO. Alternatively, he is ready to act as an independent scientific, research, development, or academic worker in the field of military communication and information systems. The graduate can further build a scientific perspective in the whole range of applications of information and communication technologies in the civil sector, especially in areas sensitive to safety and reliability.

Graduate of the doctoral study program Military Communication and Information Systems:

- obtained a 3rd degree university qualification in the field of Military Communication and Information Systems,
- demonstrates deep and complex theoretical-methodological knowledge of key areas related to military communication and information systems at the level of current research in the world and knows how to apply them creatively and responsibly in practice,
- contributed by original scientific research to the expansion of the boundaries of scientific knowledge while fully respecting the principles of scientific integrity and publication ethics,
- can publish several original scientific peer-reviewed works in a world language,

- scientifically researches and brings its own solutions to problems in the field of military communication and information systems - theoretical models and methods of developing such systems for the transmission and processing of data, information, and knowledge,
- acquired skills to analyse and solve at a high professional level non-standard problems in crisis situations of a military and non-military nature,
- he or she is able to support technical progress in the context of his or her area of expertise, he or she is able to work independently scientifically and lead a professional and development team, follow the latest developments and constantly update his or her knowledge.

b) *The university indicates the professions for which the graduate is prepared at the time of graduation and the potential of the study program from the point of view of the application of the graduates:*

The content of the doctoral study program Military Communication and Information Systems is based on current developments and trends in the field of information and communication technologies in the world and on the current needs of the Department of Defence, where there is also a very close convergence and organizational connection of both mentioned areas. The study program is a response to the need to scientifically research the problems of military communication, information, and sensor systems, to improve their theoretical apparatus, modelling and simulation, as well as to design and build such systems in military applications. Military communication and information systems are a fundamental component of command-and-control systems. Specific for the field of military communication and information systems is the existence of active countermeasures, i.e., the adversary's targeted efforts to disrupt functionality at all levels of the architecture of military communication and information systems. The objectives of the study program are:

- training of independent scientific, research, development and academic staff in the field of military communication and information systems;
- training of university-educated experts capable of holding command and professional positions at the highest levels of command and control of the armed forces, the Ministry of Defence and in the joint staffs and structures of NATO;
- ensuring such a content and level of education, which after the end of an active military career, will ensure a smooth integration into the work process within the civil sector in the field of information and communication technologies and services for graduates.

c) *Relevant external stakeholders who have provided a statement or an affirmative opinion on the compliance of the acquired qualification with sector-specific requirements for the performance of the profession:*

Consent of the Ministry of Defence of the Slovak Republic in accordance with § 43 par. 6 letter b) Act no. 131/2002 Coll. on universities and on the amendment of certain laws as amended.

Link: Internal documents č. SELUZ-139-1/2018-OdRL'Z, č. SELUZ-7-36/2022-OdRL'Z.

3. Applicability

a) *Evaluation of the applicability of graduates of the study program:*

The presented study program is at the Academy of the Armed Forces of General Milan Rastislav Stefanik (hereinafter referred to as the "Academy of the Armed Forces") a continuation of the doctoral studies in the scientific field 91-09-9 Military Communication and Information Systems, which at the Armed Forces Academy (or at the Military Academy, Faculty of Command Support) has been implemented since 1997. During this period, several doctoral students studied in the mentioned scientific field and applied themselves as university teachers at the Armed Forces Academy, as specialists in simulation technologies and as specialists in the field of information security.

- b) Alternatively, list successful graduates of the study program:

- c) Evaluation of the quality of the study program by employers (feedback):

The study program is evaluated by the future employer, Slovak Armed Forces, on two basic levels. At the strategic level, the Commission of the Chief of the General Staff of the Armed Forces of the Slovak Republic and the Rector of the Armed Forces Academy of General Milan Rastislav Stefanik for education and training is established, one of the tasks of which is to assess the requirements of the Slovak Armed Forces for the content of higher education, career education, vocational education and training and designing the range of required competencies of graduates of individual forms of education and training. At a lower level, within the framework of the quality assurance system, the Council for the study program is established, which is established as a body that participates in activities related to students, employers and other stakeholders, defined by the Standards for the study program, and with its activity contributes to the fulfilment of the graduate's profile and to achieve the outcomes of the study program, contributes to the interest of students and employers of the Slovak Armed Forces in education and training. In the mentioned council, there are also representatives of the Armed Forces of the Slovak Republic with a formalized relationship to the relevant military specializations for which the students of the study program are being prepared.

Links: Internal documents č. ŠbPO-134-36/2022, [č. Q-60](#).

4. Structure and content of the study program

- a) Rules for creating study plans in the study program:

The rules and conditions for the creation of study plans for students are stated in the internal regulations Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik.

Link: [Študijný poriadok](#)

- b) Recommended study plans for individual study paths¹:

The recommended study plan is presented in the academic information system MAIS.

Link: [Recommended study plan](#)

- c) Study plan:

Specific educational modules are not defined in the study program, as the study program is aimed at obtaining a professional specialization and all subjects in the study plan lead to obtaining a specific specialization. Compulsory subjects define the profile of the graduate with their content and structure in such a way that the requirements of Armed Forces of Slovak Republic for the application of graduates in practice are met. Mandatory optional subjects provide students with the opportunity to profile their knowledge in a specific specialization corresponding to the number of military expertise established in the Slovak Armed Forces.

Information on individual subjects of the Recommended study plan, such as educational outcomes, related criteria and rules for their evaluation, prerequisites, co-requisites, and recommendations for creating a study plan, educational activities and methods by which educational activities are carried out, syllabi, scope, subject evaluation criteria and teachers are listed in the information sheets of the subjects listed in the academic information system MAIS.

Link: [Courses description](#)

¹ In accordance with decree no. 614/2002 Coll. on the credit study system and Act no. 131/2002 Coll. on universities and on amendments to certain laws.

The location of education in the individual subjects of the study program is the buildings of the Armed Forces Academy of General Milan Rastislav Stefanik Demanova 393, 031 01 Liptovsky Mikulas. Practical teaching and professional practice are carried out in the units and facilities of the Armed Forces of the Slovak Republic and the Ministry of Defence of the Slovak Republic.

- d) *The number of credits for proper completion of the study and other conditions that the student must fulfil during the study of the study program for its proper completion, including the conditions of state exams, rules for repeating studies and rules for extending, interrupting studies:*

A minimum of 240 credits is required to properly complete the studies.

A condition for successful completion of the doctoral study program Military Communication and Information Systems is:

1. obtaining at least 40 credits for publishing activity;
2. successful completion of all compulsory and compulsory optional subjects of the study program in accordance with the study schedule;
3. successful completion of the dissertation examination in accordance with the study schedule;
4. successful defence of the doctoral dissertation in accordance with the study schedule.

A doctoral student in full-time doctoral studies registers for the dissertation examination no later than 18 months after the start of the studies. The doctoral student is obliged to submit a written work for the dissertation exam together with the application form for the dissertation examination. The topic of the written work for the dissertation exam is specified in the individual study plan of the doctoral student. The written work for the dissertation exam consists of a dissertation project containing the current state of knowledge about the given issue, the theoretical basis of its future solution, an analysis of the approach and possibly preliminary results obtained from the solution of the dissertation. The dissertation exam is one of the state exams. The dissertation exam consists of two parts:

1. from the defence of the written work for the dissertation exam and from the presentation of the methods, means and procedures necessary to successfully solve the set tasks of the dissertation,
2. from the part in which the doctoral student demonstrates theoretical knowledge in the subjects (topics) specified in the individual study plan. For the successful completion of the dissertation examination, the doctoral student is awarded the number of credits determined by the relevant study program.

The dissertation examination is held in front of the examination committee for the dissertation examination. The defence of the dissertation is a scientific discussion of the acquired knowledge contained in the dissertation, which is conducted among the doctoral student, opponents, committee members and other participants in the defence.

- e) *Conditions for completing individual parts of the study program and the student's progress in the study program:*

The conditions for completing the individual parts of the study program and the student's progress in the study program are common to all study programs and are specified in the internal regulation Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik.

Link: [Študijný poriadok](#)

- f) *Rules for the verification of educational outcomes and student evaluation and the possibility of corrective procedures in relation to this evaluation:*

The rules for the verification of educational outcomes and student evaluation are common to all study programs and are set out in the internal regulation Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik.

Link: [Študijný poriadok](#)

g) Conditions for recognition of studies or parts of studies:

The conditions for study recognition are common to all study programs and are specified in the internal regulations Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik

Link: [Študijný poriadok](#)

h) Topics of final theses of the study program:

The topics of the final theses of the study program are listed in the Central Register of Final and Qualifying Theses.

Link: [Vyhľadávanie záverečných prác](#)

i) Links to:

- rules for submitting, processing, opposing, defending, and evaluating final theses in the study program,
- possibilities and procedures for participation in student mobility,
- rules for observing academic ethics and drawing consequences,
- procedures applicable to students with special needs,
- procedures for submission of initiatives and appeals by the student.

The rules for entering, processing, opposing, defending and evaluating final theses in the study program are governed by the internal regulation Directive on the requirements of final theses, their bibliographic registration, control of originality, storage and access, as well as the Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik.

Links: [Smernica o náležitostiach záverečných prác](#), [Študijný poriadok](#)

Possibilities and procedures for participating in student mobility are governed by the Directive on organizing foreign mobility of students and employees of the Armed Forces Academy, ERASMUS+.

Link: [Erasmus+](#)

The rules for observing academic ethics and drawing consequences are determined by the Disciplinary Commission of the Armed Forces Academy, whose meeting and disciplinary rules are published on the website of the Armed Forces Academy, as well as Study Regulations of the Armed Forces Academy of General Milan Rastislav Stefanik.

Links: [Disciplinárny poriadok](#), [Rokovací poriadok disciplinárnej komisie](#), [Študijný poriadok](#)

The procedures applicable to students with special needs are defined in the internal regulation Guideline on the support of students and applicants with specific needs of the Armed Academy of General Milan Rastislav Stefanik.

Link: [Smernica o podpore študentov a uchádzačov so špecifickými potrebami](#)

Procedures for submission of initiatives and appeals by students are specified in the internal regulation Study Regulations of the Armed Academy of General Milan Rastislav Stefanik.

Link: [Študijný poriadok](#)

5. Information sheets of study program subjects

In the structure according to decree no. 614/2002 Coll.

A set of information sheets for individual subjects is presented in the academic information system MAIS.

Link: [Courses description](#)

6. Current schedule of the academic year and current timetable (or hyperlink).

The current schedule of the academic year is listed on the website of the Armed Forces Academy in the Education and Training section. The current timetable is available on the MAIS - academic information system portal.

Links: [Harmonogram na Akademický rok 2022/2023](#), [Rozvrhy MAIS](#)

7. Staffing of the study program

a) *The person responsible for the implementation, development and quality of the study program (indicating the function and contact):*

prof. Marcel HAKAL, PhD. – Professor of the Department of Informatics, marcel.harakal@aos.sk

prof. Ing. Jozef ŠTULRAJTER, CSc. – Head of the Department of Informatics, jozef.stulrajter@aos.sk

prof. Ing. Miroslav LÍŠKA, CSc. – Professor of the Department of Informatics, miroslav.liska@aos.sk

doc. RNDr. Ľubomír DEDERA, PhD. – Associate Professor of the Department of Informatics, lubomir.dedera@aos.sk

pplk. doc. Ing. Michal TURČANÍK, PhD. – Associate Professor of the Department of Informatics, michal.turcanik@aos.sk

The outputs of the creative activity of the persons responsible for the implementation, development and quality of the study program are listed in the online catalogue of the Record of Publication Activity of the Academy of the Armed Forces.

Link: [Výstupy tvorivej činnosti](#)

b) *List of persons providing profile subjects of the study program with assignment to the subject with a link to the Central register of university employees, with contact information (they may also be listed in the study plan):*

The list of persons providing individual subjects is given in the academic information system MAIS.

Link: [Information system MAIS](#)

c) *Reference to the scientific/artistic-pedagogical characteristics of persons providing profile subjects of the study program:*

The scientific/artistic-pedagogical characteristics of persons providing individual subjects are listed in the MAIS information system.

Link: [VÚPCH](#)

d) *List of teachers of the study program with assignment to the subject and a link to the Central register of university employees, with contact details (can be part of the study plan):*

The list of persons providing individual subjects is given in the MAIS information system.

Link: [Information system MAIS](#)

- e) List of supervisors of final theses with assignment to topics (with contact details):

Link: [Témy záverečných prác](#)

- f) Reference to the scientific/artistic-pedagogical characteristics of the supervisors of final theses:

The scientific/artistic-pedagogical characteristics of the thesis supervisors are listed in the MAIS information system.

Link: [VÚPCH](#)

- g) Student representatives who represent the interests of study program students (name and contact):

Link: [Zoznam členov Rady pre študijný program](#)

- h) Study advisor of the study program (with contact information and information on access to counseling and the consultation schedule):

The study advisors of the individual study groups are listed in the document overview of the study groups located in the information system of the Academy of Armed Forces available on the website. Individual study advisors meet with students as needed based on an agreement via e-mail communication. Space for consultations is planned directly in the schedule of the academic year for all study groups.

Link: [Prehľad študijných skupín](#)

- i) Other support staff of the study program – assigned study officer, career advisor, administration, accommodation department, etc. (with contacts):

Ing. Zuzana Brestovská – Department of Higher Education of the Armed Forces Academy, vzdelavanie@aos.sk

8. Spatial, material and technical provision of the study program and support

- a) List and characteristics of study program classrooms and their technical equipment with assignment to educational outcomes and subjects (laboratories, project and art studios, studios, workshops, interpreter booths, clinics, priestly seminaries, science and technology parks, technology incubators, school enterprises, practice centres, training schools, teaching and training facilities, sports halls, swimming pools, sports grounds):

To ensure teaching in the given study program, the Armed Forces Academy has created sufficient spatial and material-technical capacities. The teaching and training base of the Armed Forces Academy is undergoing gradual extensive modernization financed by European structural funds. Foreign languages are taught by the Department of Social Sciences and Languages in modern classrooms equipped with specialized audio-visual equipment. Standard lecture rooms (equipped with a whiteboard and data projector) are also available for the spatial provision of the study program in the classroom block of the Armed Forces Academy.

To ensure teaching in the given study program, the Armed Forces Academy has created sufficient spatial and material-technical capacities. The teaching and training base of the Armed Forces Academy is undergoing gradual extensive modernization financed by European structural funds. Foreign languages are taught by the Department of Social Sciences and Languages in modern classrooms equipped with specialized audio-visual equipment. Other specialized laboratories are available for teaching electrical engineering subjects. Standard lecture rooms (equipped with a whiteboard or data projector) are also available for the spatial provision of the study program in the classroom block of the Armed Forces Academy.

The Department of Informatics currently has the following specialized classrooms and equipment available for teaching and scientific work:

Classroom 4427 (General computing laboratory): 20xPC, Windows 10, MS Office, access to the Internet and to the terminal server, data projector, Wi-Fi

Classroom 4426 (General computing laboratory): 22xPC, Windows 10, MS Office, access to the Internet and to the terminal server, data projector, Wi-Fi___33

Classroom 4429 (Laboratory of microprocessor technology): 23xPC type WS, 20x kit Xilinx Cool Runner II, 5x development kit Microchip, 3x development kit DSP TI 32054, plotter A1, data projector, Wi-Fi

Classroom 4428 (Laboratory of computer networks): 10xPC, equipment for Cisco CCNA: 6 routers Cisco 2800, 6 switches Catalyst 2960, 2x LinkSys WRT 610H, equipment for creating and testing structured cabling, data projector, Wi-Fi.

Classroom 4407 (Laboratory of high-performance computing): 1xAMD64 (8-processor system), Windows 2003 Server, Visual Studio 2005, PGI Visual Fortran, 8x Opteron, 16GB RAM, 4x Dual AMD64, Solaris, Windows 2003 Server, CentOS, 16x Accelerator Nvidia Tesla C870, 16x Cluster Nod – 2x Opteron, 4GB RAM, 1x Voltaire InfiniBand switch, 2x Cisco switch.

The INFOSEC laboratory complex is intended for teaching ICT, VoIP, and information security subjects. It consists of the listed rooms with the following equipment:

Classroom 4440 (computer security and VoIP classroom):

1x EPSON EB-1430Wi – multimedia projector

4x LCD 55" Samsung

1x EPSON WF-5690 – printer

6x DELL Inspiron 1350 – all in one PC

5x MacBook Pro

5x HP laptop 17"

5x Cisco IP Phone 7975

2x Cisco ASA 5506H-X

1x Cisco VG 202XM

1x Cisco AIR-AP3702E

1x Cisco 3900

2x Cisco 2900

2x Cisco Catalyst 3650

3x VS-81H HDMI switch

UPS

Classroom 4438 (general classroom):

1x EPSON EB-1430Wi – multimedia projector

4x LCD 55" Samsung

1x EPSON WF-5690 – printer

17x DELL Inspiron 1350 – all in one PC

4x HP WS Z640

4x VS-81H HDMI switch

Classroom 4425 (computer security and VoIP classroom):

1x EPSON EB-1430Wi – multimedia projector

4x LCD 55" Samsung
1x EPSON WF-5690 – printer
11x DELL Inspiron 1350 – all in one PC
5x MacBook Pro
5x HP laptop 17"
6x Cisco IP Phone 7975
2x Cisco UC Phone 8831
2x Cisco ASA 5506H-X
1x Cisco VG 202XM
1x Cisco AIR-AP3702E
1x Cisco 3900
2x Cisco 2900
2x Cisco Catalyst 3650
4x VS-81H HDMI switch

UPS

The Department of Electronics provides the following laboratories and technologies to support education in the field of telecommunications technology and scientific work:

Classroom 5505 (Laboratory of new generation connection nodes and WiMAX): 2 connecting nodes of the reduced assembly of the command and staff workplace – VŠRV and the mobile connection node of the MSU-1 battalion from the set of the MOKYS mobile communication system (data projector, Wi-Fi, LAN, 8 x PC, ...)

2x Alcatel WiMAX base station, end devices, antenna systems, control unit.

Classroom 5509 (Laboratory of mobile radio technology): A set of military VSW and SW radio stations of the equipment band OS SR (2xPR, 4xRF 10, 4xR 111, 2x R 123, 2x R 130, 2x R173, THZ – R 124, COMTAG, Dicom recipient KV R 160, diagnostic devices S 123-Z, KZ 10, the technology of the 5-channel base station of analogue trunk-type radio networks by Motorola, 20x Stations SABER III, network management system, diagnostic equipment, antennas.

Classroom 5510 (Laboratory of telecommunications technology): Switchboard S-12 Alcatel, switchboard VoIP Tesla Pfonet 3000, switchboard UE 60 Tesla, switchboard Panasonic-KX-TDA, radio relay tract co. NERA (34 Mb/s), terminal analogue phone, digital phone., VoIP. 8xPC type WS, data projector, Wi-Fi, white board E-Beam.

Other specialized classrooms and facilities for training and education are provided by the Simulation Centre, as a unique workplace in the field of modelling and simulation technologies. The simulation centre provides a complex of simulation tools to ensure teaching with the possibility of virtual simulation and advanced technologies.

The academic library of the Armed Forces Academy is a scientific information, bibliographic, coordination and consulting workplace. Its main activities are the acquisition, professional records, processing, storage, protection, and lending of specialized information documents. Storage and registration of final and qualification theses, bibliographic record, and registration of publication activity in the Central Registry of Publication Activity of the Slovak Republic. Participating in the creation of a joint catalogue of monographs and periodicals of SR libraries, making available an electronic online catalogue of information documents. It participates to a significant extent in the development of library and information science by creating, maintaining, and making accessible the nationwide collective catalogues of libraries involved in the project of the state information system CIS 3G (library and information system of the third generation). The academic library is a member

of all Slovak professional associations and associations in the field of library and information science.

In the premises of the study hall, 24 workstations connected to the intranet and the internet are available to users, as well as 1 scanner for scanning magazine articles in compliance with copyright law. There are 74 seats available for full-time studies. Of these, 4 workstations for the electronic online catalogue are available in the information document lending areas. The academic library provides its services in the premises of the study centre with barrier-free access.

The Armed Forces Academy has an extensive sports complex with a sports hall and three gymnasiums, outdoor sports fields, and a 50 m swimming pool with eight swimming lanes to ensure teaching.

- b) *Characteristics of information provision of the study program (access to study literature according to subject information sheets, access to information databases and other information sources, information technologies, etc.):*

The Armed Forces Academy uses an E-learning server with Moodle software and a terminal server on the Windows Server 2012R2 platform to ensure teaching (distribution of study materials, communication with students and testing). In addition to budgetary resources, the up-to-datedness of software and technical equipment is ensured by the department's participation in the Cisco Networking Academy, Microsoft DreamSpark, IBM Academic Initiative and Palo Alto Networks Cybersecurity Academy programs. Each teacher of the department has for his or hers scientific and pedagogical work available own PC or laptop. The information system is built on the basis of MS Exchange/Microsoft SharepointServices technologies. The connection to the Internet is currently realized by an optical fixed line with a capacity of 200 Mbit/s + 200 Mbit/s after the band is exhausted. A microwave connection with a capacity of 8 Mbit/s is used as a secondary connection to the internet. Students also have access to the internet from the dormitories and through Wi-Fi from the teaching and training areas of the Armed Forces Academy. Each student has a school account created in the internal information system along with their own school e-mail address.

- c) *Characteristics and scope of distance education applied in the study program with assignment to subjects. Approaches, manuals of e-learning portals. Procedures for the transition from face-to-face to distance learning:*

The study program is primarily taught in the face-to-face form of education. If necessary, it is possible to switch to a distance form of education while ensuring the fulfilment of the set educational outcomes. The Armed Forces Academy uses an E-learning server with Moodle software and a terminal server on the Windows Server 2012R2 platform. The basic solution for providing distance education is a cloud solution from Microsoft 365 Education for schools with a package of applications that allow you to stay in touch and implement remote teamwork and provide online distance education through the MS Teams application. Each teacher and student of the academy has their own account created in the cloud solution, which they can use even during face-to-face teaching and team projects.

When providing distance learning, the seminar exercises are theoretical, in the form of a discussion in the MS Teams application, similar to the provision of lectures. Laboratory exercises are provided through software simulation tools with the possibility of remote access from home. To ensure laboratory exercises, experiments and measurements can be carried out via live inputs from the laboratory and video transmissions. The pedagogue will demonstrate the experiment or measurement and students will prepare reports and protocols from the measurements independently according to the assignment.

The transition to the distance form of education is notified to students through their e-mail addresses in the school's information system.

- d) *Partners of the university in ensuring educational activities of the study program and characteristics of their participation:*

Armed Forces of the Slovak Republic are an important partner in providing education. The practical part of the teaching in the form of practical training and internships is carried out in the units and facilities of the armed forces. Other partners in the Slovak Republic and abroad are listed on the website of Armed Forces Academy.

Link: [Partnerské inštitúcie](#)

e) *Characteristics of the possibilities for social, sports, cultural, spiritual and social enjoyment:*

Armed Forces Academy equipment and free time.

Link: [Virtuálny deň otvorených dverí](#)

The parish of the Armed Forces Academy was established on May 1st, 2004 by the military ordinary Mons. Frantisek Rabek. It provides a number of activities for students, course participants, employees, as well as the general public.

Link: [Farnosť sv. Jany z Arku](#)

Possibilities for sports activities are provided directly on the premises of the Armed Forces Academy in the sports complex.

Link: [Športový areál](#)

The academic library provides library and information activities in the field of education, science and technology for the scientific and pedagogical corps, students of the Armed Forces Academy, students of courses, members of the Armed Forces of the Slovak Republic. At the same time, it provides a rich library fund with novels and magazines.

Link: [Akademická knižnica](#)

f) *Possibilities and conditions for students of the study program to participate in mobility and internships (with contact details), application instructions, rules for recognizing this education:*

Possibilities and conditions for students of the study program to participate in mobility and internships, application instructions, rules for recognition of this education are continuously published on the website of the Armed Forces Academy.

Link: [Erasmus+](#)

9. Required skills and prerequisites of the applicant for the study program

a) *Required skills and prerequisites for admission to study:*

The basic condition for admission to doctoral studies is a second-level university education.

The level of abilities for study and scientific work is determined by an entrance exam. The entrance examination takes place in the form of an entrance interview in front of the entrance examination committee, which consists of the chairman and at least two other members appointed by the rector on the proposal of the chairman of the union committee. The mentor who wrote the topic for which the applicant applied is also invited to the admission interview. During the interview, the commission mainly observes the following aspects:

- professional preparation of the applicant in the chosen issue (according to the topic of the dissertation),
- compliance with previous studies or professional work with the topic of the dissertation, for which the applicant applied,
- motivation for doctoral study and for solving the relevant topic of the dissertation,
- previous study/work results,
- language skills (English) for studying scientific and professional papers.

Applicants are advised to think through their own concept of solving the chosen topic before the admission interview and to attach to their application, in addition to the standard required documents, any other documents proving their abilities for further study and scientific work (excerpt of results from university studies, documents on completion of industrial or language certification exams or trainings, list of previous publishing activities, etc.)

Link: [Doktorandské štúdium](#)

b) *Admission procedures for studies:*

The procedures, rules and conditions of admission to study the study program are listed on the website of the Armed Forces Academy in the information section for study applicants, in the internal regulation Study regulations of the Armed Forces Academy of General Milan Rastislav Stefanik and in the directive Additional conditions for admission to study.

Links: [Doktorandské štúdium](#), [Študijný poriadok](#)

c) *Results of the admission procedure for the last period:*

The results of the admission procedure for individual applicants are available on the website of the Armed Forces Academy.

Link: [Prijímacie konanie](#)

10. Feedback on the quality of the provided education

a) *Procedures for monitoring and evaluating students' opinions on the quality of the study program:*

The Armed Forces Academy has developed an Internal Quality Assurance System, which was approved as an internal regulation. The internal quality system creates a formal framework for ensuring feedback within the management of educational activities at different levels. When evaluating the quality of the educational process, students are involved in the evaluation as an important element of feedback.

Students are involved in the process of evaluating the quality of the provided education in several ways. They comment on the quality of education, teachers and the quality of the teaching process through anonymous evaluation. According to the internal regulations of the Armed Forces Academy, they can submit suggestions and complaints. The Armed Forces Academy organizes student meetings with the management structures of the educational process, from the persons responsible for the study program to the academy management. Students are represented in the bodies of the academic self-government, namely in the Academic Senate and the Disciplinary Commission of the Armed Forces Academy.

Students participate in the preparation, discussion and approval of materials and internal regulations in the field of education within the processes of internal commenting and approval by the academic self-government, as members of the Council for the Study Program, members of working groups created to assess the compliance of the Study Program with the Standards for the Study Program and as members of the Quality Assurance Council.

b) *Results of student feedback and related measures to improve the quality of the study program:*

In accordance with § 70 par. 1 letter h) of the Act on Universities, students have the right to comment on the quality of teaching and teachers at least once a year in the form of an anonymous questionnaire. Students of the Armed Forces Academy can use this right through anonymous questionnaires, which monitor student satisfaction with the quality of teaching during the academic year. The evaluation of the questionnaires is made available to all students within the intranet site. Participation in the assessment is voluntary. Questionnaires are always evaluated at the end of the summer semester.

Link: [Dotazník kvality](#)

c) *Results of alumni feedback and related measures to improve the quality of the study program:*

Evaluation of alumni feedback takes place at the level of the Commission of the Chief of the General Staff of the Armed Forces of the Slovak Republic and the Rector of the Armed Forces Academy of General Milan Rastislav Stefanik for education and training, one of the tasks of which is to assess the requirements of the Armed Forces of the Slovak Republic for the content of higher education, career education, vocational education and training and designing the range of required competencies of graduates of individual forms of education and training. In order to determine the level of preparedness of graduates, the Human Resources Section of the Ministry of Defense of the Slovak Republic, as well as the Personnel Office of the Armed Forces of the Slovak Republic, conducts questionnaires among graduates, as well as their superiors. The results of questionnaire surveys are the subject of discussion by the above-mentioned commission with the aim of improving the training of future officers.

11. Links to other relevant internal regulations and information regarding the study or the student of the study program
(e.g., study guide, accommodation regulations, fee guidelines, student loan guidelines and more):