WOJSKOWA AKADEMIA TECHNICZNA
im. Jarosława Dąbrowskiego
(Military University of Technology)

PROGRAMME OF STUDY

Level: Second cycle studies

Major: National Security

Profile: General academic profile

Mode: Full-time

**Resolution of the Senate of Wojskowa Akademia Techniczna
im. Jarosława Dąbrowskiego**

**No. 92/WAT/2023 dated June 22, 2023
authorising the adoption of programmes of study
for a degree in National Security**

Effective from the academic year: 2023-2024

Warsaw

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PROGRAMME OF STUDY

for a degree in: National Security – General academic profile

Level: Second cycle studies

Profile: General academic profile

Mode: Full-time

Degree awarded to graduates: Magister *(Master)*

Polish Qualifications Framework Level: Seven

Classification of the major:

  Branch of science: Social Science
  Scientific field: Security Science – 90% ECTS
  Political and Administrative Sciences – 10% ECTS

Main field: Security Science

Language of instruction: Foreign language

No. of semesters: 4

Total no. of hours: 1,064

No. of ECTS credits required to complete the studies: 120 ECTS

Total no. of ECTS credits that students must earn in the course of the studies:
 - **courses with direct participation of academic teachers or other instructors: 61 ECTS**
  - **social science courses: 120 ECTS**

Available specialisations according to elective subjects:
- Crisis Response Systems Management
- Euro-Atlantic Security

Length, no. of ECTS credits, rules and form of internship:
The programme of second cycle studies does not include an internship.

The description of learning outcomes includes:
- universal first-cycle characteristics set out in the Appendix to the Act of 22 December 2015 on the Integrated Qualifications System
- second-cycle characteristics set out in the Appendix to the Regulation of Minister of Science and Higher Education of 14 November 2018 on the second-cycle characteristics of learning outcomes for level 6-8 qualifications of the Polish Qualifications Framework, including requirements for obtaining engineering qualifications

and it comprises three categories:
- the **knowledge (W)** category which specifies:
    - size and depth **(G)** - completeness of the cognitive perspective and relationships,
    - context **(K)** - conditions, effects.
- the **skills (U)** category which specifies:
    - in terms of application of knowledge (**W**) - problems to be solved and tasks to be performed,
    - in terms of communication (**K**) - receiving and formulating statements, spreading knowledge in the scientific community and speaking a foreign language,
    - in terms of work organisation (**O**) - planning and teamwork,
    - in terms of learning (**U**) - planning own personal development and development of others.
- the **social competences (K)** category which specifies:
    - in terms of evaluations (**K**) - critical approach,
    - in terms of responsibility (**O**) - fulfilling civic duties and acting in the public interest,
    - in terms of professional role (**R**) - independence and formation of professional ethos.
Symbols:
- in the **Outcome Symbol and Number** column:
    - K - major-specific learning outcomes;
    - W, U, K (after underscore) - category: W for knowledge, U for skills, K for social competences;
    - 01, 02, 03, ... - no. of learning outcome.
- in the **Description Component Code** column: P7S_WG - description component code for second cycle characteristics for level 7 qualifications of the Polish Qualifications Framework.

Outcome Symbol and Number	Description of Learning Outcomes	Description Component Code
KNOWLEDGE	**Graduate:**	
K_W01	has an in-depth knowledge and understanding of selected facts, objects and phenomena related to security and of the methods and theories that explain the relationships between these categories	P7S_WG
K_W02	has an in-depth understanding of the legal, psychological, technical, informational, sociological and ethical aspects of security provision and of the fundamental dilemmas about security provision of the civilisation	P7S_WK
K_W03	has an in-depth knowledge of the theory and advanced research methods used in social science and of the trends in national and international security research	P7S_WG
K_W04	has an in-depth knowledge and understanding of the nature, place and role of social science and of its relationship to other sciences, including humanities, technical and exact sciences.	P7S_WG
K_W05	has an in-depth knowledge of risks, sources of risks, risk management methods and the fundamental dilemmas about security provision of the civilisation	P7S_WK

K_W06	has an in-depth knowledge of the methods of evaluation of security processes and systems and the analysis and forecasting of socio-economic phenomena and processes in the face of security risks	P7S_WK
K_W07	has an in-depth knowledge and understanding of the operation of organisations and institutions that provide security, of the role of a human being as the creator of culture and organiser of social structures who lays down the rules for their operation and management methods, functions and processes	P7S_WG
K_W08	has a knowledge of selected topics of mathematics, computer science, statistics and basic cryptology and of their application in the development and evaluation of security systems	P7S_WG
K_W09	has an in-depth knowledge of elements of infrastructure, of the principles of intellectual property management and of various forms of business development	P7S_WK
K_W10	has an in-depth knowledge and understanding of selected facts, objects and phenomena related to security and of the methods and theories that explain the relationships between these categories	P7S_WG
SKILLS	**Graduate:**	
K_U01	is able to communicate with various recipients on specialist topics in a foreign language at a B2+ level according to the Common European Framework of Reference for Languages, sufficient for spoken and written communication on general topics and advanced communication using specialist terminology	P7S_UK
K_U02	is able to identify and interpret complex social phenomena and processes, including their historical, philosophical, economic, cultural, military, legal, psychological, technical, informational, sociological and ethical aspects that impact national and international security, and to pick and interpret appropriate reference materials using appropriate research methods	P7S_UW
K_U03	is able to monitor, analyse, model and forecast the dynamic of a security situation for complex systems, to propose modifications in it and to pick and apply procedures, measures and work methods suitable for the security situation to ensure effective task performance	P7S_UW
K_U04	is able to properly use normative systems for explaining, describing and solving specific problems of security provision and management from the perspective of the subject and object	P7S_UW
K_U05	is able to convey his/her views using specialist terminology adapted to audience's needs, to hold a debate and to present and evaluate opinions and views on security topics	P7S_UK
K_U06	is able to skilfully use selected theoretical concepts as well as mathematical and computer methods and models, computer simulations and visualisations for analysing and evaluating practical steps taken in the area of national security	P7S_UW
K_U07	is able to formulate and test research hypothesis, pick the right methods and techniques, build research tools, process, present and interpret results of research, using selected existing or new techniques and tools, including ICT technology	P7S_UW
K_U08	is able to pick management methods suitable for the organisation and specific situation; interact with others within a team, assume leadership of the team and direct its work	P7S_UO
K_U09	is able to engage in self-learning, raise his/her professional qualifications as well as personal and social skills, engage in permanent education and provide others with guidance in this area	P7S_UU
SOCIAL COMPETENCES	**Graduate:**	
K_K01	is prepared to perform a critical analysis of transmitted and received information on security and related fields	P7S_KK

K_K02	is prepared to recognise the significance of knowledge for solving theoretical and practical problems of security provision and to seek the advice of experts in case he/she is unable to solve them on his/her own	P7S_KK
K_K03	is prepared to actively participate in public and professional life, inspire and organise institutionalised forms of civic engagement, social environment and to initiate projects in the public interest	P7S_KO
K_K04	is prepared to think and act with a business mindset and to evaluate the effects of such actions in relation to the proposed undertakings	P7S_KO
K_K05	is prepared to assume responsibility for his/her professional roles in a variable environment, accept and comply with the rules of teamwork and the principles of ethics, develop and enforce ethical behaviour in others	P7S_KR
K_K06	is prepared to nurture and expand the output and ethos associated with his/her role and is aware of the need to look after them	P7S_KR

Subject groups / subjects[1], their brief description (framework programmes), assigned ECTS credits and learning outcomes (reference to major-specific outcomes)

No.	Subject Group Subject Name, Brief Description (framework programme)	ECTS Credits	Field Code	Reference to Major-Specific Outcomes
	General Education General Subjects	**5**		
1	FOREIGN LANGUAGE Contents of the framework programme: Language/style/academic vocabulary at B2+ level. Grammar consolidation for reading, listening, speaking and academic writing: specialist reading comprehension (definitions, abstracts, scientific papers, articles, etc.). The art of oral presentations. Academic writing: choice of stylistic devices	**2**	NoB	K_U01; K_K01
2	GEOPOLITICS Contents of the framework programme: Geopolitics in the world of science. Geopolitics as an integral element of global and regional security assessment. Definitions of geopolitical codes. Dilemmas of 'geopolitical security'. Armed conflicts according to renowned geopolitics and geostrategy scholars. Polish geopolitical thought. Russia's geopolitical perspective and concepts. China's geopolitical perspective. Contradictions of US geopolitical perspective. European integration and geopolitics. Geopolitical perspective of selected states in Asia, Middle East, Africa and Latin America.	**3**	NPA	K_W01; K_W03 K_U02; K_K01
3	OCCUPATIONAL HEALTH AND SAFETY Contents of the framework programme: Current OHS legislation. Occupational (educational) health and safety - safety procedures required in a specific job (activity) according to scientific and technical rationale.			

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[1] Subject information sheets are prepared and made available 30 days before the start of the semester in which the subject is to be taught.

	Protection from hazards to students' health and safety. Use of personal protective equipment in class (tutorials). Accident insurance. Procedures to be followed in case of accidents and in hazardous situations. Premedical first aid training.			
	Core Education **Core Subjects**	**25**		
1	SOCIOLOGY OF SECURITY <u>Contents of the framework programme:</u> Specific characteristics of a sociological approach to human security from the perspective of subject and object. Implementation of basic concepts and key sociological theories in security. Sociological dimensions of personal and structural security. The problem of security culture.	**3**	NoB	K_W02; K_W04; K_U02 K_K03; K_K05
2	HISTORY OF TECHNOLOGICAL DEVELOPMENT <u>Contents of the framework programme:</u> Development of global technology from ancient times to the modern era. Impact of technology, including military technology, on human life across the ages. Inventions that changed the course of history and figures whose scientific output contributed to those changes. MILITARY ART HISTORY <u>Contents of the framework programme:</u> Critical periods in the development of military art across the ages. Impact of military art on the course of wars and military affairs and the development of military power of nations and modern armed forces – examples from history and contemporary times.	**3**	NoB	K_W02; K_W05 K_U02; K_K01
3	HUMAN BEHAVIOUR IN EXTREME SITUATIONS <u>Contents of the framework programme:</u> Basic concepts related to stress, its mechanisms and effects in extreme situations – sources of excessive stimulation and deprivation of basic human needs (including personal and public safety). Case studies of extreme situations: experiencing trauma, violence, stalking (cyberstalking), bullying (cyberbullying), mobbing, sexual harassment, extreme working conditions, natural disaster or catastrophe. Identification of personal, social and organisational effects of trauma and chronic stress as well as stress coping strategies.	**3**	NoB	K_W02; K_U02 K_K01; K_K05
4	PUBLIC SAFETY <u>Contents of the framework programme:</u> During the course students should gain knowledge of public and social threats, national social policy and institutions that ensure social security in Poland. They should have an understanding of basic concepts such as: social pathology, public security, social security, social exclusion, marginalisation, social issues. In addition, they should be familiar with and understand the relationships between various determinants of public security, such as unemployment or poverty. They should also have knowledge of prevention of social pathologies.	**3**	NoB	K_W05; K_U02 K_K01; K_U09 K_K03; K_K05
5	SOCIAL RESEARCH METHODOLOGY <u>Contents of the framework programme:</u> Advanced knowledge of ethics and methodologies of social research through a systematic presentation of information on research standards applicable to social science. Emphasis on the relationship between theory, research and practice. Development of skills necessary to prepare an	**3**	NoB	K_W01; K_W03 K_U05; K_U07 K_K01; K_K02

	advanced research project and to attribute basic quantitative and qualitative tools to it.			
6	NATIONAL EMERGENCIES Contents of the framework programme: Concept and definitions of a state of emergency. Historical perspective on a state of emergency. Structural elements of a state of emergency. States of emergency in Polish constitutions 1918-39. States of emergency in Polish constitutions 1944-89. States of emergency in the 1997 Polish constitution and secondary legislation. Criteria for declaring a state of emergency. Emergencies in democratic and non-democratic states. 1981-83 martial law in Poland. Causes, course, effects – discussion. States of emergency in selected countries.	3	NPA	K_W02; K_U03 K_U04; K_K05 K_K06
7	INFORMATION WARFARE THEORY Contents of the framework programme: Concept and essence of information in various scientific fields. Interpretation and classification of information resources. Essence and categories of communication. C. Shanon's quantitative information theory. M. Mazur's qualitative information theory. The significance of information warfare from the perspective of selected states. Concept and attributes of cyberspace. Cyberspace as the battlefield for information warfare. Information threats to systems. Cyberspace risk management models. Information warfare strategies. Information security assessment models. Information warfare conducted by civilian and military state and commercial services. Concept of strategic communication.	4	NoB	K_W01; K_W02 K_W09; K_U06 K_U09; K_K01 K_K03
8	CONTEMPORARY CHALLENGES AND THREATS TO CIVILISATION Contents of the framework programme: Essence, origin and development of civilisation in research. Basic concepts of contemporary challenges and threats to civilisation associated with economic and technological changes. Essence of human rights and examples of human rights violations. Security threats on the border of different cultures. Nature of cybersecurity threats – cyberwarfare, cyberterrorism, cybercrime. Cyberspace as a special security value. Development of IT and AT technology, robotisation, cyborgisation. Multifaceted environmental challenges and threats: global warming and its anticipated economic, social, political and military effects; threats related to economic and social exclusion and disintegration.	3	NoB	K_W05; K_W06; K_W10; K_U02; K_U03; K_K01 K_K06
	Major Education **Major Subjects**	**41**		
1	THEORY OF NATIONAL AND INTERNATIONAL SECURITY Contents of the framework programme: Understanding national and international security; formulating concepts; defining security; semantics. Defining the criteria of national and international security. Political and social, economic and military processes. International security: evolution of global and regional systems; interaction capacity in the contemporary international system. Challenges and threats to national and international security. Analysing strategic documents on national and international security with regard to three	3	NoB	K_W02; K_W07 K_U02; K_U03 K_K02

	dimensions of state security: national, regional and global. Selected theoretical currents.			
2	INTERNATIONAL ECONOMIC RELATIONS Contents of the framework programme: Basic concepts, terminology, research directions in international economic relations; evolution of the fundamental problems of international division of labour; international management of factors of production. Exchange rate policy, currency convertibility; basic mechanisms of contemporary global economy; mutual relations and correlations between various political, economic and social phenomena in Europe and the world.	3	NoB	K_W02; K_W07 K_U02; K_K04
3	REGIONALISATION AND INSTITUTIONALISATON OF SECURITY Contents of the framework programme: Institutionalisation and regionalisation of security – basic assumptions. Security in Europe after 1989. Regional cooperation and the role of: European Union, Council of Europe, Organization for Security and Co-operation in Europe (OSCE). North Atlantic Treaty Organisation. Subregional cooperation of states on European security. Importance of Euroregions. Role of the Visegrád Group and the Central European Initiative in European security. The Council of the Baltic Sea States and its significance for the security of the region. Political and military significance of the Commonwealth of Independent States in Europe.	3	NoB	K_W07; K_U08 K_K03; K_K06
4	POLITICAL DEMOGRAPHY Contents of the framework programme: Overview of selected correlations between the economy, policies of states and the population. The purpose of the course is to help students understand the impact of demography on the geopolitical position and security of states (sustainability and growth). Analysis and evaluation of political actions of governments designed to prevent long-term adverse effects of demographic changes. The most important factors in the analysis of demographic problems of political units: population size, age structure of a population, net reproduction rate and total fertility rate, birth rate and mortality rate and the rates of natural increase. Sociocybernetics perspective.	3	NoB	K_W01; K_W02; K_U02; K_U06 K_01; K_K03
5	IT FOR SECURITY SYSTEMS Contents of the framework programme: IT system: definition and classification of IT systems. Introduction to security systems. Basic methods of development of IT management systems; IT system life cycle. IT crisis management systems: classification and functions. Role and place of IT crisis management systems in crisis management centres. Systems designed to support the workflow and document flow: task planning and teamwork. Artificial intelligence techniques used to support decision making in crisis situations. Elements of geographic information systems (GIS): definition, role and place of GISs in IT crisis management systems.	3	NoB	K_W02; K_W08; K_U06; K_U07; K_K01; K_K02
6	DIRECTION AND COMMAND IN SECURITY INSTITUTIONS Contents of the framework programme: Essence and nature of executive power. Specific characteristics of direction and command in security and defence institutions. Characteristics of national security and defence direction and command system. Main competence	3	NoB	K_W07; K_U09; K_K04 K_K05

	models for delegating security and defence tasks to key institutions: parliamentary-cabinet model, presidential model, semi-presidential model, parliamentary-committee model. Capacity of President of the Republic of Poland: place and role in the national security and defence system. Principles of cooperation between two centres of the executive authority on security and defence in Poland (cohabitation model). Crisis command and management. Direction and command of the Polish Armed Forces; basic units of the protection subsystem: the justice system, services, guards, other institutions responsible for protection of people, public order and crisis management. Role of units of the protection subsystem in a state of emergency.			
7	INTERNAL SECURITY INSTITUTIONS <u>Contents of the framework programme:</u> Essence and fundamental concepts of internal security. Institutional system of internal security. Role and tasks of state authorities, services, inspections and guards in the area of internal security. Cooperation between internal security institutions. International determinants of internal security.	4	NPA	K_W07; K_W08 K_U03; K_K03 K_K04
	PUBLIC SERVICES AND SECURITY <u>Contents of the framework programme:</u> Public services: basic concepts and typology. Programme and task-based solutions and legal solutions; position within the national security and defence system. Overview of functional and legal competences of public order and public security institutions in Poland. Policy of implementation of solutions adopted by the EU and NATO; principles of articulation of national needs.			
8	NATO STRUCTURE, POLICY AND STRATEGY <u>Contents of the framework programme:</u> The course provides advanced knowledge of NATO together with specialized terminology and style of English for defense and security policy, and international politics. Topics include: Civilizational, geopolitical and legal foundations of NATO. Main legal acts and policy documents. Current main tasks. Multinational political (civilian) and military structure. Military strategy of nuclear and conventional forces, and different operational domains, including cyberspace. Nonmilitary activities, especially in science and technology. Budget of the organization and defense expenditures of members. Cooperation with other international organizations and the EU.	3	NPA	K_W07; K_U09; K_K04 K_K05;
	EUROPEAN SECURITY INSTITUTIONS <u>Contents of the framework programme:</u> The course provides an overview of regional – European – and selected subregional interstate organisations and their specialised institutions for international security. The course opens with the analysis of definitions of Europe and Europeanness from the security perspective. It then presents an overview of European security organisations and institutions, including the Organization for Security and Co-operation in Europe (OSCE) and the Council of Europe. The overview of selected subregional institutions focuses on Central and Eastern, Southeastern and Northern Europe. It looks at the cooperation between European security institutions and			

	their role in the United Nations system. The course concludes with a comparison between European security institutions and security institutions in other regions of the world.			
9	STRATEGIC SECURITY MANAGEMENT Contents of the framework programme: Overview of basic topics of strategic security management. Essence of the strategic management process; methods of development and implementation of crisis management strategies. Analysis of selected case studies from the local, national and regional perspective.	**3**	NoB	K_W03; K_W06 K_U03; K_U05 K_K01
10	CRISIS MANAGEMENT Contents of the framework programme: Interpretation and classification of threats. Concept, terminology, methods, tools, analysis of a crisis situation. Crisis management as a process and integral part of national security management. Legal solutions, functional and task-based solutions; principles of organisation and crisis management in Poland (evolution). Civil emergency planning and protection of critical infrastructure as the objective of crisis management. Principles of capacity planning and exploitation in crisis response. Comparative analysis of systemic crisis management solutions used in other countries	**3**	NoB	K_W02; K_W07 K_U02; K_U06 K_K01; K_K03
11	RESCUE SYSTEMS Contents of the framework programme: Essence of technical rescue. Types of intervention operations in technical rescue. National and international legislation. Rescue systems. Analysis of technology failures, disasters. Technical measures and procedures in rescue operations. Computer-aided solutions. Finding and clearing access, freeing and rescuing victims and people and animals exposed to danger. Marking, fencing off the sites of rescue operations or danger zones, providing ventilation in danger zones and on the site of rescue operations. Providing lighting and protecting accident sites. Rescue systems for railway and road transport. Maritime rescue operations. Rescue systems for air transport. RESCUE SERVICES IN TRANSPORT Contents of the framework programme: Concept of rescue services. Main objectives, tasks and structure of the rescue services system in Poland. Characteristics and capacity of entities responsible for rescue services. Role and objectives of the National Rescue and Firefighting System. Capacity and tasks of the State Emergency Medical Services. Optimum use of the rescue services. Public-Safety Answering Points. Structure and operation of the National Contamination Detection and Alert System. Role of non-governmental entities in rescue services. Role and evolution of civil defence.	**3**	NoB	K_W05; K_W07 K_U04; K_U08 K_K01; K_K06
12	GEOSPATIAL ANALYTICS SYSTEMS Contents of the framework programme: European and national spatial data infrastructure. National database of geodetic and cartographic data. Basic mathematical tools for spatial analyses. Geographic information systems as a tool for geospatial analytics. Examples and potential applications of geospatial analytics	**4**	NoB	K_W05; K_W06 K_U07; K_K02

	(military security, crisis management, environmental protection, transport, geomarketing).			
13	EVALUATION OF SECURITY PROCESSES AND SYSTEMS Contents of the framework programme: Characteristics of valuation, principles of evaluation of security processes and systems. Identification of the subject and scope of evaluation. Quantitative and value analysis of security processes and systems. Evaluation and analysis of security processes and systems from the perspective of selected system attributes. Evaluation of the risk and quality of security processes and systems. Time and cost analysis in the evaluation of security processes and systems. Continuity of operations and the level of systemic security and situational awareness.	**3**	NoB	K_W06; K_W07 K_U03; K_U08 K_K02; K_K04
	Specialisation: **CRISIS RESPONSE SYSTEMS MANAGEMENT**	27		
1	CIVIL EMERGENCY PLANNING Contents of the framework programme: Planning as a component of management. Stages of the planning process. A plan and characteristics of a good plan. Fulfilment of civil emergency planning tasks by public administration bodies. Types of plans in civil emergency planning. Objectives of civil emergency planning. Preparing public administration bodies for crisis response. Planning the involvement of the Polish Armed Forces in crisis response.	3	NoB	K_W07; K_U08 K_U09; K_K02 K_K05
2	ASYMMETRIC THREATS Contents of the framework programme: Origin and nature of the concept and terminology related to asymmetric threats to security; political, economic, social and culture environment; effects and prevention strategies. Principles of identification and interpretation of asymmetric threats; critical analysis of the indications of asymmetric threats. Review of research on the typology of asymmetric threats. Signs of asymmetric threats: terrorism, transnational organised crime, cybercrime, privatisation of security. National security of Poland in the face of asymmetric threats.	3	NoB	K_W03; K_U03 K_U08; K_K02 K_K05
3	INTERNATIONAL CRISIS RESPONSE SYSTEMS Contents of the framework programme: Crisis and crisis situations from the perspective of global security. Basic categories of crisis management from the international perspective. Essence of international dispute and conflict – examples (conditions, process, crisis resolution methods). Classification of international disputes. Characteristics and evaluation of amicable dispute resolution methods for international disputes. Dispute resolution with the help of international organisations. Legal capacity and legitimacy of international organisations. Procedures for amicable dispute resolution with the help of international organisations. Role of global and regional powers in resolution of crisis situations. Effects of international terrorism on the emergence of crisis situations.	3	NoB	K_W03; K_U03 K_U08; K_K02 K_K05
4	CRISIS MANAGEMENT AT CENTRAL AND REGIONAL LEVELS Contents of the framework programme: Essence and basic concepts related to a crisis response system at particular levels of governance in Poland. Main objectives and tasks and the organisational structure of crisis	4	NoB	K_W02; K_W07 K_U05; K_U08 K_K03

	response systems at the national and voivodeship level. Role and tasks of the State Fire Service, other guards, inspections and professional support services and social rescue organisations.			
5	RISK AND CONTINUITY OF OPERATIONS MANAGEMENT Contents of the framework programme: Reliability and continuity of operations as the systemic criteria of evaluation of systems. Reliability structure of a system. Measures of reliability and accessibility. Sources and valuation of interference with security systems. Vulnerabilities of security systems to natural and anthropogenic hazards. Models for minimizing the risk of interference. Evaluation of the maturity of a security system.	5	NoB	K_W02; K_W09 K_U03; K_U08 K_K02
6	GOVERNMENT SERVICES IN THE CRISIS RESPONSE SYSTEM Contents of the framework programme: Main objectives and tasks of government services in the area of crisis response; legal regulations and their evolution, primary functions. Analysis of selected case studies, presentation of practical aspects of the operations conducted by government services in crisis situations (taxonomy, hazard analysis); principles of cooperation aimed at removing the negative effects of events.	5	NoB	K_W01; K_W07 K_U02; K_U03 K_K02
7	PROTECTION OF CRITICAL INFRASTRUCTURE Contents of the framework programme: Methods of assessing the risk for infrastructure. Physical protection of critical infrastructure. Ensuring reliability and accessibility of infrastructure. Minimising the risk of attacks by employees of the organisation. ICT criteria of security of an object. Legal protection of an object. Ensuring security in the workplace.	4	NoB	K_W02; K_W09 K_U04; K_U05 K_K03; K_K05
Specialisation: **EURO-ATLANTIC SECURITY**		27		
1	SECURITY IN INTERNATIONAL LAW Contents of the framework programme: Public international law – introduction. Specific nature of sanctions in international law. Sources of international law. International customs and resolutions of international organisations. International treaties. Concept, structure, conclusion and grounds for invalidity. Subject matter, territory, parties and term of an international treaty. State as the subject of international law. Succession of states. Other subjects of international law. International legal events. Unilateral acts. State liability. State territory and population. Maritime law. Diplomatic and consular law. Amicable resolution of international disputes. UN and UN specialised agencies.	3	NoB	K_W02; K_W06 K_U04; K_K03
2	BASICS OF PROTOCOL Contents of the framework programme: The course provides an overview of the basics of protocol, including practical skills, to the extent required for working and serving in the state and local government administration, armed forces or other government agencies, the European Union, UN and other international organisations or businesses that operate on a large international scale. Protocol is an important tool in bilateral and multilateral diplomatic relations, consular relations and public diplomacy in the multicultural world. Covered topics include diplomatic correspondence, immunities and	3	NoB	K_W03; K_W04 K_U04; K_U09 K_K03

	privileges as well as selected aspects of diplomatic and consular law.			
3	CHALLENGES AND THREATS TO EUROPEAN SECURITY Contents of the framework programme: The purpose of the course is to identify and provide an overview of contemporary challenges and threats to European and Polish security. Major challenges in building European security and threats that reflect on the sense of security in united Europe; characteristic features, interdependence of European security and national security.	4	NoB	K_W03; K_U03 K_U09; K_K01
4	EUROPEAN SECURITY MODELS AND CONCEPTS Contents of the framework programme: The course presents a diverse range of models and concepts of European security. Students should be able to recognise and describe them. Moreover, they should be able to name the features that differentiate individual security from universal security. They should be familiar with the authors of selected concepts and know when the concepts were in effect.	4	NoB	K_W01; K_W07 K_U03; K_U04 K_K02; K_K04
5	POWERNOMICS AND POWERMETRICS Contents of the framework programme: International relations from a praxeological perspective. Notion of national power. National power modelling and measurement. Methods of national power modelling and measurement. Models of perceived power. Modelling international balance of power using synthetic power metrics. Designing national security strategies using synthetic power metrics. Evaluating efficiency of countries using synthetic power metrics.	5	NoB	K_W06; K_W07 K_U03; K_U04 K_K03; K_K05
6	EUROPEAN SECURITY INSTITUTIONS Contents of the framework programme: The course provides an overview of regional - European – and selected subregional interstate organisations and their specialised institutions for international security. The course opens with the analysis of definitions of Europe and Europeanness from the security perspective. It then presents an overview of European security organisations and institutions, including the Organization for Security and Co-operation in Europe (OSCE) and the Council of Europe. The overview of selected subregional institutions focuses on Central and Eastern, Southeastern and Northern Europe. It looks at the cooperation between European security institutions and their role in the United Nations system. The course concludes with a comparison between European security institutions and security institutions in other regions of the world.	5	NoB	K_W02; K_W07 K_U03; K_U04 K_K03; K_K05
7	INTERNATIONAL ECONOMIC SECURITY Contents of the framework programme: This course aims to help students gain a broad understanding of global and Polish economic security, learn to describe and interpret economic phenomena and processes that threaten the security of the world and Poland. Graduates of second cycle studies in National Security should be open to changes that occur in the global and Polish economy and be convinced of their necessity.	3	NoB	K_W02; K_W07 K_U02; K_K04
Elective subjects in total		40		
Thesis		22		

1	GRADUATION SEMINAR Contents of the framework programme: Thesis writing methodology (general requirements, thesis structure, editorial notes, annotations, quotations, abbreviations). Rules of the e-plagiat system, introduction to the academic calendar – deadlines for theses. Identification of the topic, purpose and structure of a thesis. Preparation and approval of a thesis timeline. Search for reference materials. Explanation of the thesis concept (purpose, research problems, hypothesis). Guidelines for writing up individual chapters of the thesis. Identification of the research methods used in the thesis. Issuing students with tasks related to the thesis and their analysis. Presentation of the first chapter of a thesis by students. Discussing the first chapter with the thesis supervisor. Submitting for approval the final (revised) version of the first chapter and presenting the contents of the second chapter. Discussing the second chapter with the thesis supervisor. Submitting for approval the final (revised) version of the second chapter and presenting the contents of the third chapter. Discussing the third chapter with the thesis supervisor. Submitting for approval the final (revised) version of the third chapter and presenting the contents of the fourth chapter. Discussing the fourth chapter with the thesis supervisor. Presenting final conclusions and preparing the summary, reference literature, annexes, appendices, lists, etc. Presenting and proofreading the full text of the thesis. Submitting the full text of the thesis for approval. Preparing and delivering a paper at a thesis defence	2	NoB	K_W01; K_W03; K_U01; K_U07; K_U09 K_K02; K_K05
2	Thesis	20	NoB	K_W01; K_W03 K_U07; K_U09 K_K02; K_K05
Total:		**120**		

Methods of verification and assessment of learning outcomes[2] achieved by the student throughout the entire eduction cycle

Learning outcomes achieved by the student are verified at different stages of education through:

- ongoing assessment of student's performance in class (presentation, written assignments, activity level, etc.);
- subject exams;
- professional internships;
- thesis assessment;
- final exam;
- university class evaluation survey (WAT template).

Verification covers learning outcomes achieved by the student in courses that involve direct participation of academic teachers and students, as part of classes in core subjects, practical classes (including tutorials, laboratory classes and seminars) as well as individual

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[2] Overview only - for details see specific subject information sheets.

projects and assignments completed by the student without teacher's participation. Learning outcomes are verified through:

- (oral and written) exams,
- graded assessments,
- non-graded assessments,
- answers to questions,
- quizzes and tests,
- individual assignments.

  Learning outcomes related to social competences are verified during:
- tutorials,
- seminars,
- assessment of student's performance and attitude during an internship.

The assessment of learning outcomes achieved by the student is based on teacher's assessment of the level of achievement of learning outcomes. The Faculty Committee for Education Quality System recommended the following levels of achievement of learning outcomes:

A **very good** grade is awarded to a student who achieved the learning outcomes in 91-100%.

A **good plus** grade is awarded to a student who achieved the learning outcomes in 81-90%.

A **good** grade is awarded to a student who achieved the learning outcomes in 71-80%.

A **satisfactory plus** grade is awarded to a student who achieved the learning outcomes in 61-70%.

A **satisfactory** grade is awarded to a student who achieved the learning outcomes in 51-60%.

An **unsatisfactory** grade is awarded to a student who achieved the learning outcomes in 50% or less.

A **non-graded pass** (zal.) is awarded to a student who achieved the learning outcomes in more than 50%.

A **fail grade** (nzal.) is awarded to a student who achieved the learning outcomes in 50% or less.

The process of verification of learning outcomes through a thesis and final exam is governed by the applicable WAT regulations.

Opinions and suggestions of employers and other stakeholders are taken into consideration when the programme of study is modified and updated.

All theses are run through the Uniform Anti-Plagiarism System.

The final exam takes an oral form and it is held during an open hearing of a subcommittee. During the exam the student presents his/her thesis and then answers questions about the presentation and 2 exam questions relative to the major and specialisation, picked by lot.

PLAN OF STUDIES

PLAN OF FULL-TIME SECOND CYCLE (MASTER'S) STUDIES
GENERAL ACADEMIC PROFILE
MAJOR: NATIONAL SECURITY
Specialisation according to elective subjects: Crisis Response Systems Management

Start year: 2023

#	Module groups, modules	hours	ECTS	lecture		tutorial		laboratory	project	seminar	I hours		I ECTS	II hours		II ECTS	III hours		III ECTS	IV hours		IV ECTS	Organisational unit
	A. General Subjects	**64**	**5**	**20**		**44**		**0**	**0**	**0**	**34**		**3**	**30**		**2**	**0**		**0**	**0**		**0**	
1	Foreign language	30	2			30	+							30	+	2							SJO
2	Geopolitics	30	3	16	+	14					30	+	3										WLO/IBO
3	Occupational Health and Safety	4		4							4												ZBHP
	B. Core Subjects	**254**	**25**	**136**		**104**		**14**	**0**	**0**	**150**		**15**	**60**		**6**	**44**		**4**	**0**		**0**	
1	Sociology of Security	30	3	16	+	14					30	+	3										WLO/IBO
2	Elective module 1. (History of Military Technology or History of Military Thought)	30	3	16	+	14								30	+	3							WLO/IOZ
3	Human Behaviour in Extreme Situations	30	3	16	+			14			30	+	3										WLO/IBO
4	Public Safety	30	3	16	x	14	+				30	x	3										WLO/IBO
5	Social Research Methodology	30	3	16	+	14								30	+	3							WLO/IBO
6	National Emergencies	30	3	16	+	14					30	+	3										WLO/IBO
7	Information Warfare Theory	44	4	24	x	20	+										44	x	4				WLO/IBO
8	Contemporary Challenges and Threats to Civilisation	30	3	16	+	14					30	+	3										WLO/IBO
	C. Major Subjects	**418**	**41**	**224**		**160**		**34**	**0**	**0**	**120**		**12**	**224**		**22**	**74**		**7**	**0**		**0**	
1	Theory of National and International Security	30	3	16	+	14	+				30	+	3										WLO/IBO
2	International Economic Relations	30	3	16	+	14								30	+	3							WLO/IOZ
3	Regionalisation and Institutionalisaton of Security	30	3	16	+	14					30	+	3										WLO/IBO
4	Political Demography	30	3	16	x	14	+				30	x	3										WLO/IBO
5	IT for Security Systems	30	3	16	+			14									30	+	3				WCY/ISI
6	Direction and Command in Security Institutions	30	3	16	x	14	+							30	x	3							WLO/IBO
7	Elective module 1. (Internal Security Institutions or Public Services and Security)	44	4	24	x	20	+										44	x	4				WLO/IBO
8	Elective module 2. (NATO Structure, Policy and Strategy or European Security Institutions)	30	3	16	x	14								30	x	3							WLO/IBO
9	Strategic Security Management	30	3	16	+	14								30	+	3							WLO/IBO
10	Crisis Management	30	3	16	x	14	+				30	x	3										WLO/IBO
11	Elective module 3. (Rescue Systems or Rescue Services in Transport)	30	3	16	+	14								30	+	3							WLO/IBO
12	Geospatial Analytics Systems	44	4	24	+			20						44	+	4							WLO/IOZ
13	Evaluation of Security Processes and Systems	30	3	16	x	14	+							30	x	3							WLO/IOZ
	D. Elective Subjects **Crisis Response Systems Management**	**298**	**27**	**160**		**110**		**28**	**0**	**0**	**0**		**0**	**0**		**0**	**194**		**19**	**104**		**8**	
1	Civil Emergency Planning	30	3	16	+	14											30	+	3				WLO/IBO
2	Asymmetric Threats	30	3	16	+	14											30	+	3				WLO/IBO
3	International Crisis Response Systems	30	3	16	+	14											30	+	3				WLO/IBO
4	Crisis Management at Central and Regional Levels	44	4	24	x	20	+										44	x	4				WLO/IBO
5	Risk and Continuity of Operations Management	60	5	32	x	14	+	14									30	+	3	30	x	2	WLO/IBO
6	Government Services in the Crisis Response System	60	5	32	x	14	+	14									30	+	3	30	x	2	WLO/IBO
7	Protection of Critical Infrastructure	44	4	24	+	20	+													44	+	4	WLO/IBO
	E. Thesis	**630**	**22**	**0**		**0**		**0**	**600**	**30**	**0**	**0**	**0**	**0**	**0**	**0**	**200**	**0**	**0**	**430**	**0**	**22**	
1	Graduation Seminar	30	2							30	+									30	+	2	WLO/IBO
2	Thesis	600	20						600	x							200			400	x	20	WLO/IBO
	Total no. of hours* / ECTS	**1064**	**120**	**540**		**418**		**76**	**600**	**30**	**304**		**30**	**314**		**30**	**512**		**30**	**534**		**30**	
	Acceptable deficit of ECTS credits												**16**			**16**			**16**				

Type and number of required evaluations:	I	II	III	IV
exam - X	3	3	3	3
assessment - +	7	7	6	2
project - #	0	0	0	0

* Excluding the hours dedicated for E2. Thesis

Semester II-IV - education cycle includes elective subjects

SJO – Foreign Languages College
WLO – Faculty of Security, Logistics and Management
IBO – Institute of Security and Defence
ZBHP – Occupational Health and Safety Team
IOZ – Institute of Organisation and Management
WCY – Faculty of Cybernetics
ISI – Institute of IT Systems

PLAN OF FULL-TIME SECOND CYCLE (MASTER'S) STUDIES
GENERAL ACADEMIC PROFILE
MAJOR: NATIONAL SECURITY
Specialisation according to elective subjects: Euro-Atlantic Security

Start year: 2023

	Module groups, modules	Total no. of hours / ECTS credits		including:					No. of hours/evaluations/ECTS credits per semester:								Organisational unit (institute/department) responsible for the module
									I		II		III		IV		
		hours	ECTS	lecture	tutorial	laboratory	project	seminar	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	
	A. General Subjects	**64**	**5**	**20**	**44**	**0**	**0**	**0**	**34**	**3**	**60**	**2**	**0**	**0**	**0**	**0**	
1	Foreign language	30	2		30 +						30 +	2					SJO
2	Geopolitics	30	3	16 +	14				30 +	3	30						WLO/IBO
3	Occupational Health and Safety	4		4					4								ZBHP
	B. Core Subjects	**254**	**25**	**136**	**104**	**14**	**0**	**0**	**150**	**15**	**60**	**6**	**44**	**4**	**0**	**0**	
1	Sociology of Security	30	3	16 +	14				30 +	3							WLO/IBO
2	Elective module 1. (History of Military Technology or History of Military Thought)	30	3	16 +	14						30 +	3					WLO/IOZ
3	Human Behaviour in Extreme Situations	30	3	16 +		14			30 +	3							WLO/IBO
4	Public Safety	30	3	16 x	14 +				30 x	3							WLO/IBO
5	Social Research Methodology	30	3	16 +	14						30 +	3					WLO/IBO
6	National Emergencies	30	3	16 +	14				30 +	3							WLO/IBO
7	Information Warfare Theory	44	4	24 x	20 +								44 x	4			WLO/IBO
8	Contemporary Challenges and Threats to Civilisation	30	3	16 +	14				30 +	3							WLO/IBO
	C. Major Subjects	**418**	**41**	**232**	**166**	**34**	**0**	**0**	**120**	**12**	**224**	**22**	**74**	**7**	**0**	**0**	
1	Theory of National and International Security	30	3	16 +	14 +				30 +	3							WLO/IBO
2	International Economic Relations	30	3	16 +	14						30 +	3					WLO/IOZ
3	Regionalisation and Institutionalisaton of Security	30	3	16 +	14				30 +	3							WLO/IBO
4	Political Demography	30	3	16 x	14 +				30 x	3							WLO/IBO
5	IT for Security Systems	30	3	16 +		14							30 +	3			WCY/ISI
6	Direction and Command in Security Institutions	30	3	24 x	20 +						30 x	3					WLO/IBO
7	Elective module 1. (Internal Security Institutions or Public Services and Security)	44	4	24 x	20 +								44 x	4			WLO/IBO
8	Elective module 2. (NATO Structure, Policy and Strategy or European Security Institutions)	30	3	16 x	14						30 x	3					WLO/IBO
9	Strategic Security Management	30	3	16 +	14						30 +	3					WLO/IBO
10	Crisis Management	30	3	16 x	14 +				30 x	3							WLO/IBO
11	Elective module 3. (Rescue Systems or Rescue Services in Transport)	30	3	16 +	14						30 +	3					WLO/IBO
12	Geospatial Analytics Systems	44	4	24 +		20					44 +	4					WLO/IOZ
13	Evaluation of Security Processes and Systems	30	3	16 x	14 +						30 x	3					WLO/IOZ
	D. Elective Subjects **Euro-Atlantic Security**	**298**	**27**	**160**	**138**								**208**	**19**	**90**	**8**	
1	Security in International Law	30	3	16 +	14								30 +	3			WLO/IBO
2	Basics of Protocol	30	3	16 +	14								30 +	3			WLO/IBO
3	Challenges and Threats to European Security	44	4	24 x	20 +								44 x	4			WLO/IBO
4	European Security Models and Concepts	44	4	24 +	20								44 +	4			WLO/IBO
5	Powernomics and Powermetrics	60	5	32 x	28 +								30 +	3	30 x	2	WLO/IBO
6	European Security Institutions	60	5	32 x	28 +								30 +	2	30 x	3	WLO/IBO
7	International Economic Security	30	3	16 +	14 +										30 +	3	WLO/IBO
	E. Thesis	**630**	**22**	**0**	**0**	**0**	**600**	**30**	**0**	**0**	**0**	**0**	**0**	**0**	**200**	**0**	**0**	**430**	**0**	**22**	
1	Graduation Seminar	30	2					30 +							30 +	2	WLO/IBO
2	Thesis	600	20				600 x						##		400 x	20	WLO/IBO
	Total no. of hours* / ECTS credits	1064	120	548	452	48	600	30	304	30	344	30	526	30	520	30	
	Acceptable deficit of ECTS credits								16		16		16				

Type and number of required evaluations:					
	exam - X	3	3	3	3
	assessment - +	7	7	6	2
	project - #	0	0	0	0

* Excluding the hours dedicated for E2. Thesis

Semester II-IV - education cycle includes elective subjects

SJO – *Foreign Languages College*
WLO – *Faculty of Security, Logistics and Management*
IBO – *Institute of Security and Defence*
ZBHP – *Occupational Health and Safety Team*
IOZ – *Institute of Organisation and Management*
WCY – *Faculty of Cybernetics*
ISI – *Institute of IT Systems*

Wojskowa
Akademia
Techniczna

Wydział
Bezpieczeństwa,
Logistyki i Zarządzania

Opinia
WYDZIAŁOWEJ RADY DO SPRAW KSZTAŁCENIA
WYDZIAŁU BEZPIECZEŃSTWA, LOGISTYKI I ZARZĄDZANIA
WOJSKOWEJ AKADEMII TECHNICZNEJ
im. JAROSŁAWA DĄBROWSKIEGO

Nr 07/05/2023 z dnia 17.05.2023r.

w sprawie programu studiów

Na podstawie § 17 Regulaminu Wydziałowej Rady do spraw Kształcenia Wydziału Bezpieczeństwa, Logistyki i Zarządzania WAT, stanowiącego załącznik do Decyzji Dziekana Wydziału Bezpieczeństwa, Logistyki i Zarządzania nr 13/WLO/2019 z dnia 28 listopada 2019 r. w sprawie nadania Regulaminu Wydziałowej Radzie do spraw Kształcenia opiniuje się, co następuje:

Rada pozytywnie zaopiniowała program studiów drugiego stopnia na kierunku „National security"

PRODZIEKAN
ds. kształcenia i spraw studenckich
Wydziału Bezpieczeństwa,
Logistyki i Zarządzania WAT

dr Wiesława ZAŁOGA

Wojskowa Akademia Techniczna im. Jarosława Dąbrowskiego, ul. gen. Sylwestra Kaliskiego 2, 00-908 Warszawa
NIP: 527-020-63-00, REGON: 012122900, www.wat.edu.pl

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OPINIA

Rady Samorządu Studenckiego Wydziału Bezpieczeństwa, Logistyki i Zarządzania WAT

Dotycząca programu studiów dla kierunku "National Security"

Rada Samorządu Studenckiego Wydziału Bezpieczeństwa, Logistyki i Zarządzania WAT po zapoznaniu się z przedstawionym projektem programu studiów stacjonarnych drugiego stopnia o profilu ogólnoakademickim na kierunku National Security i rozpoczynających się w roku akademickim 2023/2024 nie wnosi uwag i pozytywnie opiniuje przedłożony jej do oceny program studiów.

Przedstawiciel Rady Samorządu WLO

Marta Tomczak

Marta Tomczak

*Przewodnicząca Rady Samorządu
Studenckiego WLO*

Karina Adamkiewicz