



**Institute of Technical Automation and Information Technologies
Department of "Cybersecurity, information processing and storage"**

**EDUCATIONAL PROGRAM
8D06301 Information security systems**

Code and classification of the field of education: 8D06 - Information and communication technologies

Code and classification of training directions: 8D063 Information security

Group of educational programs: D095 Information Security

Level based on NQF: 8

Level based on IQF: 8

Duration of study: 3







Volume of credits: 180

Almaty, 2025


Educational program 8D06301 Information security systems was approved at the meeting of K.I. Satbayev KazNRTU Academic Council
Minutes No 10 dated «06» 03 2025.

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council
Minutes No. 3 dated « 20 » 12 2024

Educational program 8D06301 Information security systems was developed by Academic committee based on direction D095 Information Security

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:				
Pokusov Viktor Vladimirovich		Chairman	Kazakhstan Information Security Association	
Teaching staff:				
Aitkhozhayeva Yevgeniya Zhamalkhanovna	Candidate of Technical Sciences, Associate Professor	Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
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Satybaldiyeva, Ryskhan Zhakanovna	Candidate of Technical Sciences	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Serbin Vassiliy Valerievich	Candidate of Technical Sciences	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
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NON-PROFIT JOINT STOCK COMPANY «KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY
named after K.I.SATBAYEV»

Yubuzova Ibragimovna	Khalicha	PhD	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Employers:					
Mamyrbayev Zhumazhanovich	Orken	PhD, Associate Professor	Deputy General Director	RSE "Institute of Information and Computing Technologies"	
Konysbayev Tuyakuly	Amret	Candidate of Physical and Mathematical Sciences	President	Association of Innovative Companies of the SEZ "PIT"	
Batyrgaliev Bolatkanovich	Askhat	PhD, Associate Professor	Border Service of the National Security Committee, Counterintelligence	Military Unit No. 01068	
Students					
Abilkayyrova Serikkyzy	Alina		3rd-year student	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Elle Venera			1st-year doctoral student	NJSC "K. I. Satbayev Kazakh National Research Technical University"	

General information

№	Field name	Note
1	Code and classification of the field of education	8D06 Information and communication technologies
2	Code and classification of training directions	8D063 Information security
3	Educational program group	D095 IT security
4	Educational program name	8D06301 Information security systems
5	Short description of educational program	<p>Graduates' professional activities include: science, education, government and departmental structures, public administration and local government, economics and finance, industry, agriculture, culture, and healthcare.</p> <p>The objects of professional activity of graduates are:</p> <ul style="list-style-type: none"> – Public administration bodies; – information security departments and departments of departmental organizations; – information security departments, IT departments and departments of financial organizations;

		<p>– information security departments, IT departments and departments of industrial enterprises; – higher education institutions and scientific institutions; – departments and departments of information security of government organizations and commercial structures.</p> <p>The main functions of doctoral students' professional activities are: conducting research in the field of information protection and security; auditing, vulnerability analysis and incident investigation in information security systems; design, implementation, operation, administration, maintenance and testing of information security systems of enterprises. providing hardware and software protection of information systems for various purposes The areas of professional activity are as follows:</p> <p>– design, development, implementation and operation of information security systems; – analysis, testing and identification of system vulnerabilities; – information security audit.</p>
6	Purpose of EP	The purpose of the educational program is to provide comprehensive and high-quality training for competitive, highly qualified specialists in the field of information protection and security, who are ready to solve scientific, practical and theoretical tasks of professional activity in modern conditions.
7	Type of EP	New EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of the Educational program	The program is aimed at training doctoral students capable of conducting independent scientific research in the field of information security management and developing innovative solutions. A distinctive feature of the program is the integration of modern international standards, scientific approaches, and practices, which ensures the development of research and analytical competencies at the level of global requirements.
13	Education form	Full-time
14	Period of training	3 years old
15	Amount of credits	180
16	Languages of instruction	Russian, Kazakh, English
17	Academic degree awarded	Doctor of Philosophy PhD
18	Developer(s) and authors:	Aitkhozhayeva Y. Zh., Yubuzova Kh.I., Alimseitova Zh. K.