NCJS «KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY
named after K.I.SATBAYEV»

Institute of Automation and Information Technology
Department of Cybersecurity

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
Study period: 3 years
Amount of credits: 180

Almaty 2026

The Educational program 8D06301 Information Security Systems was approved at the meeting of the Management Board of Satbayev University.
Minutes No. 5 dated 10 march 2026.

Reviewed and recommended for approval at the meeting of the Educational and Academic Council of K.I. Satbayev Kazakh National Research Technical University.
Minutes No. 8 dated 26 february 2026.

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of K.I. Satbayev Kazakh National Research Technical University.
Minutes No. 3 dated 25 december 2025.

The Educational Program 8D06301 Information Security Systems was reviewed and developed at the meeting of the Academic Committee.
Minutes No. 3 dated 18 december 2025.

Passport of educational program

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	The educational program is aimed at doctoral students studying basic and specialized disciplines and achieving relevant competencies in information security systems. The professional activities of graduates include: science, education, government and departmental structures, public administration and local government, economics and finance, industry, agriculture, culture, and healthcare. The objects of professional activity of graduates of master's degree programs in the educational program "Integrated information Security" are: − Public administration bodies; − information security departments and departments of departmental organizations; − information security departments, IT departments and departments of financial organizations; − 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. 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: − design, development, implementation and operation of information security systems; − analysis, testing and identification of system vulnerabilities; − information security audit.
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
8	The level based on NQF	8
9	The level based on IQF	8

10	Distinctive features of EP	No
11	Education form	Full-time
12	Period of training	3 years
13	Amount of credits	180
14	Languages of instruction	Kazakh, russian, english
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer(s) and authors	Alimseitova Zh.K Aitkhozhayeva Y.Zh., Yagaliyeva B.E. Yubuzova Kh.I.