NCJS “KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY named after K.I. SATBAEV"

Institute of Automation and Information Technologies
Department of Higher Mathematics and Modeling

EDUCATIONAL PROGRAM

8D06104 Cybernetics and artificial intelligence

Code and Classification of Education Area:
8D06 Information and Communication Technology Code
and classification of areas of training:
8D061 Information and Communication Technologies
Group of educational programs:
D094 Information Technology

Level based on NQF: 8
Level based on IQF: 8
Study period: 3 years
Amount of credits: 180

Almaty 2026

The Educational Program 8D06104 Cybernetics and artificial intelligence was approved at the meeting of the Management Board of Satbayev University
Minutes No. _5__ dated _10.03_, *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 _26.02_, *2260*.

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 _25.12. *2025*.

The Educational Program 8D06104 Cybernetics and artificial intelligence was reviewed and developed at the meeting of the Academic Committee.
Minutes No. 5 dated 01.12.2025.

Passport of educational program

General information

№	Field name	Note
1	Code and classification of the field of education	8D06 Information and Communication Technology
2	Code and classification of training directions	8D061 Information and Communication Technologies
3	Educational program group	D094 Information Technology
4	Educational program name	8D06104 Cybernetics and artificial intelligence
5	Short description of educational program	The direction of the specialty program is related to engineering and engineering science. The educational program (EP) of higher professional education ensures the implementation of the state educational standard, taking into account the type of higher educational institution, the educational needs and requests of students, and includes a working curriculum, syllabuses (working programs of academic courses), disciplines (modules), and other materials that ensure the quality of students' training, as well as programs for scientific and pedagogical practice, a calendar curriculum, and methodological materials that ensure the implementation of the relevant educational technology. Training of elite scientific and academic personnel capable of creating advanced intelligent systems, developing innovative machine learning algorithms, and solving complex problems in management, science, and high-tech business.
6	Purpose of EP	Training of elite scientific and academic personnel capable of creating advanced intelligent systems, developing innovative machine learning algorithms, and solving complex problems in management, science, and high-tech business.
7	Type of EP	New EP
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	Lukpanova L.H., Tulesheva G.A.