**Institute of Automation and Information Technology**
**Department of Electronics, Telecommunications and Space Technologies**

# EDUCATIONAL PROGRAM
# 8D06201 Telecommunications

Code and classification of the field of education: 8D06 Information and communication technologies
The code and classification of training areas: 8D062 Telecommunications
Group of educational programs: D096 Communications and communication technologies
NQK Level: 8
ORK Level: 8
Duration of study: 3 years
Amount of credits: 180

**Almaty 2026**

Educational Program 8D06201 Telecommunications approved at the meeting of the Board of the NJSC “K.I. Satpayev Kazakh National Research Technical University”.
Minutes No. 5 dated March 10, 2026.

Reviewed and recommended for approval at the meeting of the Academic Council of the Board of the NJSC “K.I. Satpayev Kazakh National Research Technical University”.
Minutes No. 8 dated February 26, 2026.

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of the NJSC “K.I. Satpayev Kazakh National Research Technical University”.
Minutes No. 3 dated December 25, 2026.

Educational Program 8D06201 Telecommunications was reviewed and developed at the meeting of the Academic Committee.
Minutes No. 1 dated January 13, 2026.

# Passport of the educational program

## General information

| № | Field name | Note |
|---|---|---|
| 1 | Code and classification of the field of education | 8D06 Information and communication technologies |
| 2 | The code and classification of training areas | 8D06201 Telecommunications |
| 3 | Group of educational programs | D096 Communications and communication technologies |
| 4 | Name of the educational program | 8D06201 Telecommunications |
| 5 | Brief description of the educational program | The Telecommunications educational program is aimed at training specialists, the Telecommunications Educational Program (doctoral program) is aimed at training highly qualified specialists in the field of telecommunications and information and communication technologies, capable of solving fundamental and applied scientific problems, conducting interdisciplinary research, developing and implementing innovative solutions in the field of digital communication systems, new generation networks (5G/6G), the Internet of Things (IoT), artificial intelligence and cybersecurity. The program focuses on the formation of research, design, pedagogical and managerial competencies necessary for work in research centers, universities, IT companies and industry organizations.. |
| 6 | Purpose of the EP | Training of highly qualified specialists with fundamental educational, methodological and research training; having competences in the field of solving scientific and organizational and production processes, ensuring high-quality performance of functional duties, mobility in the professional labor market, knowing the latest world achievements and prospects for the development of the telecommunications industry.. |
| 7 | Type of EP | New EP |
| 8 | The NRK level | 8 |
| 9 | ORC Level | 8 |
| 10 | Distinctive features of the OP | No |
| 11 | The form of education | Full-time |
| 12 | Duration of training | 3 years old |
| 13 | Volume of loans | 180 credits |
| 14 | Languages of instruction | Kazakh, Russian, |
| 15 | Academic degree awarded | Doctor of Philosophy PhD |
| 16 | Developer(s) and authors: | Tashtai Y<br>Taisarieva K.N |