Institute of Automation and Information Technology
Department Robotics and Engineering Tools of Automation

EDUCATIONAL PROGRAM
8D07105 Biomedical engineering

Code and classification of the field of education:
8D07 Engineering, manufacturing and construction industries
Code and classification of training directions:
8D071 Engineering and Engineering affairs
Group of educational programs:
D102 Robotics and mechatronics
Level based on NQF: **8**
Level based on IQF: **8**
Study period: **3 year**
Amount of credits: **180**

Almaty 2026

The Educational Program 8D07105 Biomedical engineering 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, 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» 12, 2025.

The Educational Program 8D07105 Biomedical engineering was reviewed and developed at the meeting of the Academic Committee
Minutes No. 4 dated 03.12, 2025.

Passport of educational program

General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 Manufacturing and processing industries
2	Code and classification of training directions	8D071 Engineering and engineering trades
3	Educational program group	D102 Robotics and mechatronics
4	Educational program name	8D07105 Biomedical engineering
5	Short description of educational program	Training of highly qualified specialists who are able to conduct research on innovative areas of biomedical engineering development that meets international standards and allows Kazakhstan to integrate into the global educational space. Graduates are awarded PhD degree.
6	Purpose of EP	The purpose of the educational program is ensuring the training of highly qualified specialists capable of developing innovative solutions in biomedical engineering, including robotic technologies, artificial intelligence, and sustainable development of the medical industry.
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 year
13	Amount of credits	180
14	Languages of instruction	russian, Kazakh, english
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer(s) and authors	Isabekov Zh.N., Berdibaev G.K..