Mining and Metallurgical Institute named after O.A. Baikonurov
Mine Surveying and Geodesy department

THE EDUCATIONAL PROGRAM
8D07309 Geomatics, Geodesy and Geospatial Sciences

Code and classification of the field of education: **8D07 Engineering, manufacturing and construction industries**
Code and classification of training areas: **8D073 Architecture and construction**
Group of educational programs: **D123 Geodesy**
Level based on NQF: 8
Level based on IQF: 8
Study period: 3 years
Amount of credits: 180

Almaty 2026

The Educational Program 8D07309 Geomatics, Geodesy and Geospatial Sciences 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 8D07309 Geomatics, Geodesy and Geospatial Sciences in the direction of «Architecture and Civil engineering» was reviewed and developed at the meeting of the Academic Committee.
Minutes No. 1 dated 12.01_____ , 2026_.

4.1. General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 8D07 Engineering, manufacturing and construction industries
2	Code and classification of training directions	8D073 Architecture and construction
3	Educational program group	D123 Geodesy
4	Educational program name	8D07309 Geomatics, Geodesy and Geospatial Sciences
5	Short description of educational program	The educational program 8D07309 “Geomatics, Geodesy and Geospatial Sciences” provides advanced professional and research training in the fields of geodesy, geomatics, and geospatial technologies. The training covers modern methods of satellite geodesy and GNSS, geographic information systems and technologies, remote sensing of the Earth, photogrammetry and unmanned aerial vehicles (UAVs), laser scanning, geodetic and geodynamic monitoring, spatial analysis and modeling, as well as the processing and interpretation of geospatial data.
6	Purpose of EP	The purpose of the educational program is to prepare highly qualified specialists in the field of geomatics, geodesy, and geospatial sciences, capable of developing and implementing innovative methods, including artificial intelligence and geographic information systems, to solve complex problems in scientific research and industrial practice.
7	Type of EP	Innovative EP
8	The level based on NQF	8
9	The level based on SQF	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	Russian, Kazakh English
15	Academic degree awarded	Doctor of Industry
16	Developer(s) and authors	Senior Lecturer, Master of Technical Sciences Nukarbekova Zh.M.