Mining and metallurgy Institute named after O.A.Baikonurov

Mining Department

EDUCATIONAL PROGRAM

8D07211 Digital Modelling of Mining and Geomechanical Processes

Code and classification of the field of education:	8D07 Engineering, manufacturing and construction industries
Code and classification of training directions:	8D072 Industrial and Manufacturing Branches
Group of educational programs:	D116 Mining Engineering
Level based on NQF:	8
Level based on IQF:	8
Study period:	3 years
Amount of credits:	180

Almaty 2026

The Educational Program 8D07211 Digital Modelling of Mining and Geomechanical Processes 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 from «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 from «25» December 2025

The educational program 8D07211 Digital Modelling of Mining and Geomechanical Processes was reviewed and developed at a meeting of the Academic Committee.

Minutes No. 5 from «22» December 2025

4.1. General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 – Engineering, manufacturing and construction industries
2	Code and classification of training directions	8D072 Industrial and Manufacturing Branches
3	Educational program group	D116 Mining Engineering
4	Educational program name	8D07211- Digital modelling of mining and geomechanical processes
5	Short description of educational program	Training implies serious research work, the fulfilment of which significantly increases the status of the doctoral student as a young scientist in his/her field of study
6	Purpose of EP	Training highly qualified technical specialists of top-level mining enterprises in digital modeling of mining and geomechanical processes at the intersection of geotechnology and geomechanics to solve scientific, technological, economic, social and environmental problems of mining, endowed with the skills of transition to a green economy, transformation of business planning processes and designing mining operations using mining and geological information systems and increasing the efficiency of mining companies through the redistribution of income within the value chain. The set of disciplines corresponds to the goals of sustainable development: quality education; decent work and economic growth; industrialization, innovation and infrastructure.
7	Type of EP	Innovative 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 in the profile of the educational program 8D07211 Digital modeling of mining and geomechanical processes
16	Developer and authors	Moldabaev S.K.