



Mining and Metallurgical Institute named after O.A. Baikonurov

Mining Department

EDUCATIONAL PROGRAM

7M07230 – “Mining Resource-saving Digital Engineering”

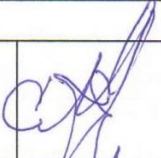
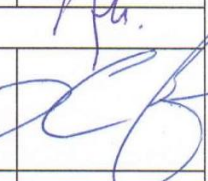
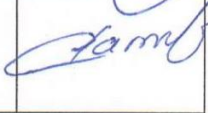



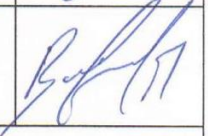
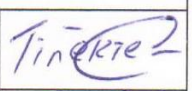
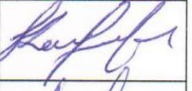

Code and classification of the field of education:	7M07 Engineering, manufacturing and construction industries
Code and classification of training directions:	7M072 Industrial and manufacturing branches
Group of educational programs:	M116 – Mining engineering
Level based on NQF:	7
Level based on IQF:	7
Study period:	1 year
Amount of credits:	60

Almaty 2025

Educational program 7M07230 – “Mining Resource-saving Digital Engineering” was approved at the meeting of K.I. Satbayev KazNRTU Academic Council. Minutes №10 dated «03» March 2025.

Educational program was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council. Minutes № 3 dated «22» December 2024.

Educational program 7M07230 – “Mining Resource-saving Digital Engineering” was developed by Academic committee based on direction 7M072-« Industrial and manufacturing branches »

Full name	Academic degree/academic title	Post	Place of work	Signature
Chatiman of the Academic Committee:				
Moldabayev Serik	Doctor of Technical Sciences, Professor	Head of the Department	KazNRTU named after K.I. Satpayev	
Teaching staff:				
Yusupov Kh.	Doctor of Technical Sciences, Professor	Professor	KazNRTU named after K.I. Satpayev	
Sandibekov Manarbek	Candidate of Technical Sciences, Associate Professor	Professor	KazNRTU named after K.I. Satpayev	
Employers:				
Uteshov Y.	PhD doctor	Director	IGD named after D.A. Kunaeva	
Amankulov Maksat	Master of Engineering sciences	Executive Director	Antal LLP	
Orynbayev Baurzhan	PhD doctor	Head of the BVR Parameters Department	NPP Interrin LLP	
Gryaznov V.	Master of Engineering sciences	Head of the Mining Department	Antal LLP	
Students:				
Tilektes Ayaulym		3 rd year student		
Karsibekov Magzhan		2 nd year Master 's student		
Assylkhanova Gulnur	Master of Engineering sciences	3 rd year doctoral student		

Passport of educational program

General information

№	Field name	Comments
1	Code and classification of the field of education	7M07 Engineering, Manufacturing and Construction industries
2	Code and classification of training directions	7M072 Industrial and manufacturing branches
3	Educational program group	M116 Mining and Mining
4	Educational program name	7M07230 Mining resource-saving digital engineering
5	Short description of educational program	Mining operations in open-pit, underground and geotechnological mining, construction of mines and underground structures. The main technological processes are preparation of rocks for excavation, excavation and loading operations, transportation, unloading and dumping operations, primary processing of extracted minerals.
6	Purpose of EP	Training of highly qualified specialists in the field of development of solid minerals, meeting the requirements of modern high-tech resource-saving production, capable of carrying out production and design of mining operations at a high technical level using digital information systems and endowed with the skills of transition to a green economy. 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
8	The level based on NQF	7
9	The level based on IQF	7
10	Distinctive features of EP	no
11	Education form	Full-time
12	Period of training	1 year
13	Amount of credits	60
14	Languages of instruction	Kazakh, Russian, English
15	Academic degree awarded	Master of Engineering and Technology
16	Developer and authors	Moldabayev S.K.

