



Mining and Metallurgical Institute named after O.A. Baikonurov

Department of Metallurgy and Mineral Processing

EDUCATIONAL PROGRAM

8D07213 Extractive metallurgy and advanced materials

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
Educational program group	D117 Metallurgical engineering
The level based on NQF	8
The level based on IQF	8
Period of training	3 years
Amount of credits	180

Almaty 2025



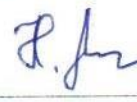



Educational program «8D07213 – Extractive metallurgy and advanced materials» was approved at the meeting of K.I. Satbayev KazNRTU Academic Council.

Protocol № 4 dated «12» 12 2024

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council

Protocol № 3 dated «20» 12 2024

Educational program «8D07213 – Extractive metallurgy and advanced materials» was developed by Academic committee based on direction «8D072 – Industrial and manufacturing branches»

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:				
Barmenshinova M.B.	c.t.s., associate professor	Head of the Department of MaMP	KazNRTU named after K.I.Satbayev	
Teaching staff:				
Baimbetov B.S.	c.t.s., docent	Professor of the Department of MaMP	KazNRTU named after K.I.Satbayev	
Dosmukhamedov N.K.	c.t.s., professor	Professor of the Department of MaMP	KazNRTU named after K.I.Satbayev	
Mamyrbayeva K. K.	PhD doctor	Associate Professor of the Department of MaMP	KazNRTU named after K.I.Satbayev	
Employers:				
Ospanov Y.A.	d.t.s.	Head of the Department of complex processing of technogenic materials	«Kazakhmys Corporation» LLP	
Students:				
Dauletbakova A.A.	master of technical sciences	1st year doctoral student	KazNRTU named after K.I.Satbayev	

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	D117 Metallurgical Engineering
4	Educational program name	8D07213 Extractive metallurgy and advanced materials
5	Short description of educational program	The educational program 8D07213 Extractive Metallurgy and Advanced Materials focuses on the training of highly qualified scientific and engineering personnel with advanced knowledge in the theory and practice of processing ore and man-made resources, as well as the development of innovative materials for modern industry, in accordance with the goals of sustainable development and the ESG concept. The program covers the full cycle of extractive metallurgy, from the extraction and processing of raw materials to the production of end products with high added value.
6	Purpose of EP	Formation of a deep understanding among doctoral students of the interactions between natural and social systems, as well as the development of skills in identifying and developing strategies for sustainable development that contribute to the long-term well-being of humanity and the preservation of the environment, including the production of advanced materials from rare-metal and rare-earth raw materials.
7	Type of EP	Innovative
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 of Industry
16	Developers and author:	Barmenshinova M.B., Chepushtanova T.A.