



**Mining and Metallurgical Institute named after O.A. Baikonurov
Department of Chemical Processes and Industrial Ecology**

**EDUCATIONAL PROGRAM
7M05202 Bioecological Engineering**

Code and classification of the field of education: **7M05 Natural Sciences,
Mathematics and Statistics**

Code and classification of training directions: **7M052 Environment**

Group of educational programs: **M087 Environmental protection technology**

Level based on NQF: **7**

Level based on IQF: **7**

Study period: **2**







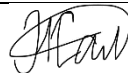
Amount of credits: **120**

Almaty 2025

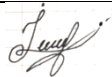

Educational program «7M05202 Bioecological Engineering» was approved at the meeting of K.I. Satbayev KazNRTU Academic Council Minutes # 10 dated «06» March 2025.

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council Minutes # 3 dated «20» December 2025.

Educational program «7M05202 Bioecological Engineering» was developed by Academic committee based on direction «7M052 Environment»

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:				
Kubekova Sholpan	Candidate of Technical Sciences, Associate Professor	Head of the Department of Chemical Processes and Industrial Ecology	NPJSC “K.I. Satbayev KazNRTU”, +77085673291	
Teaching staff:				
Yelikbayev Bakhytzhhan	Doctor of Biological Sciences, Associate Professor	Professor	NPJSC “K.I. Satbayev KazNRTU”, +77781161188	
Nurmakova Saule	Candidate of Technical Sciences	Associate Professor	NPJSC “K.I. Satbayev KazNRTU”, +77051524022	
Kezembayeva Gulmira	DBA	Senior Lecturer	NPJSC “K.I. Satbayev KazNRTU”, +77077924445	
Employers:				
Dussenova Zhyldyz	Doctor of Technical Sciences, Professor	Chief Specialist, Environmental Design and Monitoring Division	Institute of Geography and Water Security JSC, +77076661360	
Burlibayeva Diana	-	Chief Specialist, Water Resources and Rationing Division	Kazakhstan Agency of Applied Ecology LLP, +77075167955	
Students				
Akanova Zhanyl	-	Doctoral student	NPJSC “K.I. Satbayev KazNRTU”, +77772758818	
Zhaldybayeva Alua	-	Master student	NPJSC “K.I. Satbayev KazNRTU”, +7 705	

NON-PROFIT JOINT STOCK COMPANY «KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY
named after K.I.SATBAYEV»

			257 7703	
Bakhytyly Inkar	-	Student	NPJSC “K.I. Satbayev KazNRTU”, +7 747 122 2099	
Technical Secretary (Responsible Employee for WC and EP):				
Akubayeva Dariya	Candidate of Technical Sciences	Senior Lecturer	NPJSC “K.I. Satbayev KazNRTU”, +7708 768 2947	

General information

№	Field name	Comments
1	Code and classification of the field of education	7M05 Natural Sciences, Mathematics and Statistics
2	Code and classification of training directions	7M052 Environment
3	Educational program group	M087 Environmental protection technology
4	Educational program name	7M05202 Bioecological Engineering
5	Short description of educational program	EP 7M05202 - "Bioecological Engineering" is implemented by KazNITU named after K.I. Satbayev in the training direction of 7M052 - "Environment" (master) and is focused mainly on the environmental direction of training. The content of the program is aimed at developing in-depth knowledge and practical skills in the field of engineering ecology, atmospheric protection, water treatment and wastewater treatment, environmental design, environmental management, environmentally friendly production, environmental risk assessment and management, waste management, green technologies and sustainable development.
6	Purpose of EP	Training of highly qualified masters of natural sciences with fundamental scientific knowledge in the field of engineering ecology, able to implement the acquired knowledge in research, engineering, design, research and production and pedagogical activities.
7	Type of EP	New EP
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	2 year
13	Amount of credits	120 credits
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Master of Natural Sciences
16	Developer(s) and authors	Kubekova Sh.N., Yelikbayev B.K., Nurmakova S.M., Kezembayeva G.B.