



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

EDUCATIONAL PROGRAM

6B05206 Engineering ecology

Code and classification of the field of education: **6B05 Natural Sciences, Mathematics and Statistics**

Code and classification of training directions: **6B052 Environment**

Group of educational programs: **B051 Environment**

Level based on NQF: **6**

Level based on IQF: **6**

Study period: **4**







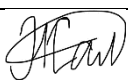
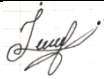

Amount of credits: **240**

Almaty 2025

Educational program 6B05206 Engineering ecology 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 6B05206 Engineering ecology was developed by Academic committee based on direction «6B052 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 Bakhytzhon	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”, +7 705 257 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	6B05 Natural Sciences, Mathematics and Statistics
2	Code and classification of training directions	6B052 Environment
3	Educational program group	B051 Environment
4	Educational program name	6B05206 Engineering ecology
5	Short description of educational program	<p>The educational program is a set of documents developed by the Kazakh National Research Technical University named after K.I. Satbayev. The EP takes into account the needs of the regional labor market, the requirements of state bodies and relevant industry requirements. EP is based on the state compulsory standards of higher and postgraduate education.</p> <p>EP defines program educational goals, student learning results, necessary conditions, content and technologies for the implementation of the educational process, assessment and analysis of the quality of students during training and after graduation.</p> <p>EP includes curriculum, discipline content and learning outcomes and other materials to ensure quality education for students.</p>
6	Purpose of EP	<p>The purpose of the educational program "Engineering ecology" is to train competitive specialists possessing knowledge in the field of environmental protection, modern ecoanalysis, capable of solving environmental problems, achieving the goals of sustainable development, the implementation of the most available technology in various industries, using the regulatory legal documents in their activities; competent in production, and research and teaching directions.</p>
7	Type of EP	New
8	The level based on NQF	6
9	The level based on IQF	6
10	Distinctive features of EP	No
11	Education form	Full-time
12	Period of training	4
13	Amount of credits	240
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Bachelor of Natural Sciences
16	Developer(s) and authors	Kubekova Sh.N., Yelikbayev B.K., Nurmakova S.M., Kezembayeva G.B.