Geology and Oil-gas Business Institute named after k. Turyssov
Department of "Geophysics and Seismology"

EDUCATIONAL PROGRAM
8D07104 Oil and gas and ore Geophysics

Code and classification of the field of education: 8D07 Engineering, manufacturing and construction industries
Code and classification of training directions: 8D071 Engineering and engineering affairs
Group of educational programs: D109 Oil and ore geophysics
Level based on NQF: 8
Level based on IQF: 8
Study period:3 years
Amount of credits:180

Almaty 2025

The educational program 8D07104 Oil and gas and ore geophysics was approved at the meeting of NJSC "Kazakh National Research Technical University named after K.I.Satpayev" Academic Council.

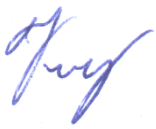
Protocol № 10 of March 6, 2025.

Was Reviewed and recommended for approval at the meeting of NJSC "Kazakh National Research Technical University named after K.I.Satpayev" Educational and Methodological Council

Protocol № 3 of December 20, 2024.

The educational program 8D07104 Oil and gas and ore geophysics was developed by the academic committee in the field of training: 8D071 «Engineering and engineering trades».

Full name	**Academic degree/ academic title**	**Position**	**Workplace**	**Signature**
Teaching staff:				
Ratov Boranbay Tovbasarovich	Doctor of Technical Sciences	Head of the Department of "Geophysics and Seismology "	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Abetov Auez Egemberlyevich	Doctor of Geological and Mineralogical Sciences	Professor	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Umirova Gulzada Kubashevna	Doctor of PhD	Associate Professor	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Togizov Kuanysh Serikkhanovich	Doctor of PhD	Professor	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Aliakbar Madiyar Manarbekuly	Master of Technical Sciences	Senior lecturer	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Employers:				

Khitrov Dmitry Mikhailovich	Candidate of Technical Sciences	Manager of the company's data processing center	«PGS Kazakhstan LLP»	
Kurmanov Baurzhan Koptleuovich	Master of Technical Sciences	General manager	OPTIMUM Design Institute LLP	
Students				
Daurbayeva Gulbanu Khamitovna	Master of Technical Sciences	1st year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Muzapparova Akerke Bakbergenovna	Master of Technical Sciences	1st year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Kirsanova Ekaterina	Master of Technical Sciences	1st year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	

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	8D071 Engineering and Engineering trades
3	Educational program group	D109 Oil and ore geophysics
4	Educational program name	8D07104 Oil and gas and ore geophysics
5	Short description of the educational program	The content of the doctoral EP in 8D07104 Oil and gas and ore geophysics is built on the basis of the development of a multi-level system of personnel training, fundamentality and quality of training, continuity and continuity of education and science, unity of training, education, research and innovation activities, aimed at maximizing customer satisfaction. A graduate of the doctoral program in the field of preparation "Oil and gas and ore geophysics should have an idea of current trends in the development of the geophysical specialty and possess: deep systematic knowledge in the field of geophysical methods of prospecting and exploration of mineral deposits. The educational program of the doctoral program in the direction 8D07104 Oil and gas and ore geophysics provides: - acquisition of in-depth theoretical knowledge and practical skills in the field of fundamental research of the earth's crust, methodologies and methods of conducting onshore and borehole and aerogeophysical research in the search and exploration of mineral deposits - training of highly qualified specialists who are able to apply innovative methods in the search and exploration of mineral deposits; use methods, skills and modern technical means necessary for the identification and exploration of oil and gas prospective structures and deposits of solid minerals; apply methods of system analysis in the evaluation of the obtained geological and geophysical and field-geophysical data; - formation of: a) the ability to find and work with the necessary literature, computer information, databases and other sources of information to solve the tasks; b) teamwork skills, but at the same time to show individuality, and if necessary to solve problems independently; c) to conduct a comprehensive analysis of geological and geophysical data and monitoring of geophysical work, as well as to make management decisions based on their results; - formation of industrial and ethical responsibility, the ability to understand the problem and to work together

		with various specialists, to find optimal solutions, the need to improve their knowledge and skills.
6	Purpose of the EP	Training of highly qualified specialists for scientific, scientific-pedagogical, industrial and innovative activities in the field of geophysics, focused on sustainable solutions to problems of prospecting and development of mineral deposits based on the use of innovative methods, technologies and software for geophysical research. The program is aimed at ensuring sustainable management of natural resources, minimizing environmental risks and developing sustainable technologies in the mining industry. Preparation of a doctoral dissertation is combined with high scientific activity, academic mobility and is aimed at obtaining a PhD degree, which contributes to the achievement of the Sustainable Development Goals, including improving scientific research, developing innovations and maintaining environmental safety
7	Type of EP	New EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	no
11	Education from	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 Philosophy PhD
16	Developer(s) and authors:	Professor Abetov A.E., Associate Professor Umirova G.K.