



**K.Turysov Institute of Geology and Oil and Gas Engineering  
Department of "Geophysics and Seismology"**

**EDUCATIONAL PROGRAM  
6B05208 Seismology**

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: B052 Earth Science

Level based on NQF:6

Level based on IQF:6

Study period: 4 years

Amount of credits: 240

**Almaty 2025**

## Educational program 6B05208 Seismology









was approved at the meeting of K.I. Satbayev KazNRTU Academic Council

Minutes # 10 dated «06» 03. 2025.

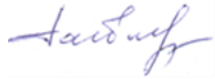


was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council

Minutes # 3 dated «20» 12. 2024.

Educational program 6B05208 Seismology was developed by Academic committee based on direction «6B052 – "Environment"»

Full name	Academic degree/academic title	Position	Workplace	Signature
<b>Teaching staff:</b>				
Boranbai Tovbasarovich Ratov	Doctor of Technical Sciences, Professor	Head of the Department of Geophysics and Seismology	Kazakh National Research Technical University named after K.I.Satpayev	
Abetov Auez Egemberdievich	Doctor of Geological and Mineralogical Sciences	Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Umirova Gulzada Kubashevna	Doctor of PhD	Associate Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Temirkhanova Raushan Galimzhanovna	Doctor of PhD	Associate Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Siylkanova Akgenzhe Orishanovna	Doctor of PhD	Senior Teacher	Kazakh National Research Technical University named after K.I.Satpayev	
Aliakbar Madiyar Manarbekuly	Master of Technical Sciences	Senior Teacher	Kazakh National Research Technical University named after K.I.Satpayev	
<b>Employers:</b>				
Mikhailova Natalia Nikolaevna	Doctor of Physical and Mathematical Sciences	Director	Kazakhstan National Data Center (KNDC)	
Uzbeks Nursarsen Bolataevich	Candidate of Physical and Mathematical Sciences	Deputy Director of Science	Institute of Seismology	
<b>Students</b>				

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Dosymbekova Zhansaya	Master of Technical Sciences	Doctoral student 2 years of study	Institute of Seismology	
Isagali Asem	Master of Technical Sciences	Doctoral student 2 years of study	Kazakhstan National Data Center (KNDC)	
Muzapparova Akerke Bakbergenovna	Master of Technical Sciences	Doctoral student 1 years of study	Kazakh National Research Technical University named after K.I.Satpayev	

## 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	B052 Earth Science
4	Educational program name	6B05208 Seismology
5	Short description of educational program	It is intended for the implementation of specialized bachelor's degree training in the educational program of the specialty "Seismology" Satbayev University. The Bachelor's degree program in the field of Seismology provides: a) training of specialists in the field of seismology and prospecting and exploration of mineral deposits; b) obtaining by bachelors of high-quality knowledge on the staging and conduct of seismological surveys, organization and conduct of field seismological measurements, processing, interpretation and modeling of the data obtained; c) acquisition of skills in analyzing geological and geophysical data, their structuring, classifications of target objects on mineral deposits; formulation and solution of direct and inverse problems in the search and exploration of mineral deposits; analysis of seismological data, construction of necessary graphs, diagrams and maps for the prediction and assessment of earthquakes.
6	Purpose of EP	Training of professionally educated and competent seismologists for research institutes, operators (subsoil users) and service companies, capable of effectively participating in studies of the structure of the earth's crust and working in engineering and technical positions to study the propagation of seismic waves in the bowels of the Earth, earthquakes and related phenomena, as well as to compile long-term forecasts of earthquake sources, their occurrence, strength and recurrence, taking into account environmental, social and economic aspects aimed at minimizing the impact on the environment and improving public safety
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	Kazakh, russian, english

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“KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATBAYEV”

15	Academic degree awarded	Bachelor of Science
16	Developer(s) and authors	Professor Abetov A.E., Associate Professor Umirova G.K.