



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

**EDUCATIONAL PROGRAM
7M07148 Engineering Geophysics**

Code and classification of the field of education: 7M07 Engineering, manufacturing and construction industries

Code and classification of training directions: 7M071 Engineering and Engineering affairs

Group of educational programs: M109 Oil and ore Geophysics

Level based on NQF: 7

Level based on IQF: 7

Duration of study: 1 year

Volume of credits: 60

Almaty 2025






The educational program 7M07148 Engineering Geophysics was approved at the meeting of the Scientific Council of the National Academy of Sciences of KazNTU named after K.I.Satpayev.

Protocol № 9, «20» February 2025 y.




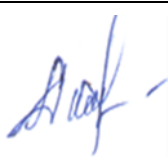

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of the National Academy of Sciences of Kazntu named after K.I.Satpayev.

Protocol № 4, «3» February 2025 y.

The educational program 7M07148 Engineering Geophysics was developed by the academic committee in the field of training: 7M071 - "Engineering and Engineering affairs"

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:				

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

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	1 st year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Muzapparova Akerke Bakbergenovna	Master of Technical Sciences	1 st year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Kirsanova Ekaterina	Master of Technical Sciences	1 st 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	7M07 Engineering, manufacturing and construction industries
2	Code and classification of training directions	7M071 Engineering and Engineering affairs
3	Educational program group	M109 Petroleum and ore Geophysics
4	Educational program name	7M07148 Engineering Geophysics
5	Short description of the educational program	<p>The specialized master's program (1 year) in the direction 7M07148 Engineering Geophysics provides in-depth training of specialists in the field of physical and geological foundations of geophysical methods for solving a wide range of problems in the construction of surface and underground structures, hydrogeology, soil science, engineering geology, permafrost, glaciology, technical geology, archeology, etc., including obtaining by master's students high-quality knowledge on:</p> <ul style="list-style-type: none"> - theoretical foundations and physical and geological conditions for the application of geophysical research; - features of the methodology and technology of field work in the study of the geological structure of the upper part of the section; - survey of surface and underground engineering structures; modern recording and processing hardware and methodological geophysical complexes; - digital processing, analysis of physical fields, modeling of geophysical processes and geological interpretation of geophysical data using modern digital software; - acquisition by students of a set of knowledge on the use of geographic information systems (GIS) for visualization, integration of geophysical data with other geoscientific data and analysis of the results obtained.
6	Purpose of the EP	Training of highly qualified specialists with modern knowledge and skills in the field of geophysical research and technologies, capable of effectively solving problems related to subsoil use, engineering surveys, environmental protection and sustainable development using the skills of planning, organizing and managing work based on inclusion and gender equality
7	Type of EP	New
8	The level based on NQF	7
9	The level based on IQF	7
10	Distinctive features of EP	no
11	Education from	full-time
12	Period of training	1
13	Amount of credits	60
14	Languages of instruction	Kazakh, russian, english
15	Academic degree awarded	Master of Engineering and Technology
16	Developer(s) and authors:	Professor Istekova S.A., Associate Professor Umirova G.K., senior teacher Tolybaeva D.N., lecturer Muzapparova A. B.