



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

**EDUCATIONAL PROGRAM  
7M07147 Digital (exploration) Geophysics**

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

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

Group of educational programs: M109 Oil and ore Geophysics

NRK Level: 7

ORC Level: 7

Duration of study: 1,5 years

Volume of credits: 90

**Almaty 2025**






The educational program 7M07147 Digital (exploration) Geophysics was approved at a 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 a 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 7M07147 Digital (exploration) 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
<b>Teaching staff:</b>				
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"	

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

<b>Employers:</b>				
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	
<b>Students</b>				
Daurbayeva Gulbanu Khamitovna	Master of Technical Sciences	1 <sup>st</sup> year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Muzapparova Akerke Bakbergenovna	Master of Technical Sciences	1 <sup>st</sup> year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	
Kirsanova Ekaterina	Master of Technical Sciences	1 <sup>st</sup> year doctoral student	NJSC "Kazakh National Research Technical University named after K.I.Satpayev"	

## General information

<b>№</b>	<b>Field name</b>	<b>Note</b>
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
3	Educational program group	M109 Petroleum and ore Geophysics
4	Educational program name	7M07147 Digital (exploration) Geophysics
5	Short description of the educational program	The Master's degree program (1.5 years) for training in the field of 7M07147 Digital (exploration) Geophysics provides: a) in-depth training of specialists in the field of physico-geological foundations of geophysical methods, digital data recording technologies and their application in the search and exploration of minerals; b) obtaining high-quality knowledge by undergraduates in digital processing, modeling of geophysical processes and geological interpretation of geophysical data using modern digital software; c) undergraduates gain knowledge and modern ideas about statistical methods and machine learning for analyzing and processing large amounts of geophysical data; d) students acquire 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.
6	Purpose of the EP	Training of highly qualified specialists capable of effectively using modern digital technologies to solve production problems using the skills of planning, organizing and managing work based on the principles of inclusive education and sustainable development in the field of digital (exploration) geophysics
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 from	full-time
12	Period of training	1,5 years
13	Amount of credits	90
14	Languages of instruction	Kazakh, russian, english
15	Academic degree awarded	Master of Engineering and Technology
16	Developer(s) and authors:	Professor Abetov A.E., Associate Professor Umirova G.K.