



**K. Turysov Institute of Geology and Petroleum Engineering  
Department of Hydrogeology, Engineering and Oil and Gas Geology**

**EDUCATIONAL PROGRAM  
6B05204 Hydrogeology and geocology**

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

Amount of credits: 240

**Almaty 2025**

The educational programme 6B05204 Hydrogeology and geoecology 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 2025 .

Educational program 6B05207 Geology of fossil fuels was developed by the Academic Committee in the field of "Environment"

Full name	Academic degree / academic title	Position	Place of work	Signature
<b>Chairman of the Academic Committee:</b>				
Absametov M. K.	Doctor of Geological and Mineralogical Technical Sciences Professor	Director	Institute of hydrogeology and geoecology of Akhmedsafin	
<b>Teaching staff:</b>				
Auelkhan E. S.	Candidate of Technical Sciences	Associate Professor	NCJS «Kazakh national research technical university named after K.I.Satbayev», mobile phone: +7 707 829 01 61, y.auyelkhan@satbayev.university	
Zapparov M. R.	Candidate of Geological and Mineralogical Technical Sciences	Associate Professor	NCJS «Kazakh national research technical university named after K.I.Satbayev», Mobile phone number: +7 777 297 08 98, m.zapparov@satbayev.university	
<b>Employers:</b>				
Absametov M. K.	Doctor of Geological and Mineralogical Technical Sciences Professor	Director	Institute of hydrogeology and geoecology of Akhmedsafin	

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"KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATBAYEV"

<b>Students</b>				
Urysbai Aizere	3rd year student OP 6B05204 "Hydrogeology and geocology"	-	NCJS «Kazakh national research technical university named after K.I.Satbayev», mobile phone: +77476017525, aizere.urysbai.05@mai l.ru	

## General information

№	Field name	Note
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	6B05204 Hydrogeology and geoecology
5	Short description of educational program	Hydrogeology— a science that studies the origin, conditions of occurrence, composition and regularities of the movement of underground vod. The interaction of groundwater with rocks, surface water, and the atmosphere is also being studied. Geoecology is an interdisciplinary scientific field that combines studies of the composition, structure, properties, processes, physical and geochemical fields of the Earth's geospheres as a habitat for humans and other organisms.
6	Purpose of EP	Training of highly qualified specialists who are competitive and in demand on the labor market for geological and hydrogeological companies, as well as organizations of water supply and groundwater use, capable of performing the entire range of prospecting and exploration for groundwater with calculations of operational reserves, designing rational methods of groundwater exploitation, planning and conducting monitoring studies to assess the geoecological consequences of groundwater use taking into account environmental, social and economic aspects, aimed at minimizing the impact on the environment and improving public safety.
7	Type of EP	production and technological; organizational and managerial; experimental research: calculation, design and analysis
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 years
13	Amount of credits	240
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Bachelor of Science
16	Developer(s) and authors	Absametov M. K., Auelkhan E. S.