Institute K.I.Turysov of Geology and Oil and Gas Engineering

Department of Hydrogeology, Engineering and Petroleum Geology

EDUCATIONAL PROGRAM
8D07215 Geology and exploration of fossil fuel

Code and classification of the field of education:	8D07 Engineering, manufacturing and construction industries
Code and classification of training directions:	8D072 Industrial and Manufacturing branches
Group of educational programs:	D121 Geology
Level based on NQF:	8
Level based on IQF:	8
Study period:	3 years
Amount of credits:	180

Almaty 2026

The Educational Program 8D07215 Geology and exploration of fossil fuel was approved at the meeting of the Management Board of Satbayev University

Minutes No. 5 dated March 10, 2026.

Reviewed and recommended for approval at the meeting of the Educational and Academic Council of K.I. Satbayev Kazakh National Research Technical University

Minutes No. 8 dated February 26, 2026.

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of K.I. Satbayev Kazakh National Research Technical University

Minutes No. 5 dated November 27, 2025.

The 8D07215 Geology and exploration of fossil fuel educational program was reviewed and developed at a meeting of the Academic Committee.

Minutes No. 5 dated December 19, 2026

4. Passport of educational program

4.1. 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	8D072 Industrial and Manufacturing branches
3	Educational program group	D121 - Geology
4	Educational program name	8D07206– Geology of oil and gas
5	Short description of educational program	Training of highly qualified practitioners capable of conducting fundamental and applied research, developing new methods of prospecting, exploration, and development of hydrocarbon deposits, and implementing innovative technologies in the geological industry. Geological knowledge: theories of formation of oil and gas basins, regional geology, tectonics and geodynamics, periodicity of sedimentation. Research skills: field, laboratory and theoretical methods, processing of geophysical and geochemical data, creation of digital 3D models of deposits. Technology development: implementation of new prospecting and exploration methods, software development, application of modern information technologies. Publication activity: publications in peer-reviewed journals, participation in international conferences, academic writing skills. Professional competencies: managerial decision-making in production conditions, leadership of research teams and projects in the field of geological research.
6	Purpose of EP	Training highly skilled hands-on specialists in the field of fossil fuel geology who can tackle current challenges in the geological industry, carry out scientific research, including developing software and new technologies, as well as methods for exploring, surveying, and developing fossil fuel deposits.
7	Type of EP	Innovative EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	no
11	Education form	full-time
12	Period of training	3 years
13	Amount of credits	180
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Doctor of Industry (PhD)
16	Developer(s) and authors	Yensepbayev Talgat Ablaevich Muratova Samal Karimbaevna

		Eskozha Bazar Atashevich