Geology and oil-gas Business Institute named after k. Turyssov
Department of " Geophysics and Seismology"

EDUCATIONAL PROGRAM
8D05302 Seismology

Code and classification of the field of education: **8D05 Natural Sciences, Mathematics and Statistics**
Code and classification of training areas: **8D053 Physical and chemical sciences**
Group of educational programs: **D091 Seismology**
The level of the NQF: 8
The level of the IQF: 8
Duration of training: 3 years
Volume of credits: 180

Almaty 2026

The educational program 8D05302 Seismology was approved at the meeting of the Management Board of Satbayev University
Protocol №5 of 10.03.2026 year

Reviewed and recommended for approval at the meeting of the Educational and Academic Council of K.I.Satbayev Kazakh National Research Technical University
Protocol №8 of 26.02.2026 year

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of K.I. Satbayev Kazakh National Research Technical University
Protocol №3 of 25.12.2026 year

Educational program 8D05302 Seismology was developed and reviewed at the meeting of the Academic Committee
Protocol №5 of 19.12.2025 year

Passport of the educational program

General information

№	Field name	Comments
1	Code and classification of the field of education	8D05 Natural sciences, mathematics and statistics
2	Code and classification of training directions	8D053 Physical and chemical sciences
3	Educational program group	D091 Seismology
4	Educational program name	8D05302 Seismology
5	Short description of educational program	The doctoral training program for the EP Seismology provides: a) training of highly qualified specialists in the field of seismogeophysical methods for assessing seismic hazard, risk and earthquake forecasting; obtaining high-quality and professional knowledge on forecasting the places of occurrence, strength and recurrence of earthquakes; b) formation of knowledge to the required extent for studying earthquake foci, displacements of Earth blocks and other environmental transformations in foci, conducting detailed studies of earthquake preparation processes in a real physico-geological environment, performing assessments of the parameters of the focus, identifying earthquake precursors and developing long-term, medium-term and short-term earthquake forecasts, methods of controlling the seismic process, assessment of anthropogenic (man-made) influence on seismicity; c) a qualified solution of engineering and seismological problems, which consists in studying the seismic wave field caused by an earthquake near the hearth, studying strong seismic movements of the Earth's surface and the interaction of soil with the structure, developing methods and conducting seismic microdistricting, determining the impact of earthquakes on the hydrosphere and the Earth's atmosphere; d) obtaining high-quality and professional knowledge by phasing and rational complexes of seismogeophysical studies, processing, interpretation and modeling of the obtained data.
6	EP purpose	To prepare PhD graduates with high-level scientific, professional, and pedagogical competencies in seismology, enabling them to lead research and educational activities, and to design and deploy innovative technologies for solving fundamental and applied challenges while upholding the principles of sustainable development, academic integrity, and inclusivity
7	Type of EP	Acting EP
8	The level of the NQF	8
9	The level of the IQF	8
10	Distinctive features of the EP	no
11	Form of training	full - time
12	Duration of training	3
13	Volume of loans	180
14	Languages of instruction	Kazakh, russian, english
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer(s) and authors:	1) Professor Abetov A.E., 2) Associate Professor Umirova G.K.