Geology and Oil-gas Business Institute named after K. Turyssov
Department of Chemical and Biochemical Engineering

EDUCATION PROGRAM

8D07116 CHEMICAL TECHNOLOGY OF ORGANIC SUBSTANCES AND MATERIALS

Code and classification of the field of education: 8D07 Engineering, manufacturing and construction industries

Code and classification of areas of study: 8D071 Engineering and Engineering

Group of educational programs: D097 Chemical engineering and processes

Уровень по НРК: 8

Уровень по ОРК: 8

Year of study: 3

Credits: 180

Almaty 2026

The Educational Program 8D07116 Chemical technology of organic substances and materials was approved at the meeting of the Management Board of NJSC “K. I. Satbayev Kazakh National Research Technical University”.

Minutes № 5 dated March 10, 2026.

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

Minutes № 8 dated February 26, 2026.

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

Minutes № 3 dated December 25, 2025.

The Educational Program 8D07116 Chemical technology of organic substances and materials was reviewed and developed at the meeting of the Academic Committee.

Minutes № 5 dated December 19, 2025.

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	8D071 Engineering and Engineering
3	Educational program group	D097 Chemical Engineering and Processes
4	Educational program name	8D07116 Chemical technology of organic substances and materials
5	Short description of educational program	The educational program regulates the educational process for training doctoral students for scientific and teaching activities in the field of chemical engineering, specifically in chemical and oil and gas chemical industries. The program is designed to provide master's students with the opportunity to choose an appropriate educational trajectory that includes individual competencies reflecting the specifics of a particular specialization.
6	Purpose of EP	Training highly qualified scientific and industrial personnel with systemic knowledge, research skills, and innovative thinking, capable of developing and implementing sustainable, resource-efficient, and environmentally safe technologies for the processing of hydrocarbon and organic raw materials, in accordance with the current demands of the chemical industry and the principles of the SDGs, including sustainable consumption, environmental protection, infrastructure development, and energy efficiency.
7	Type of EP	new
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	The educational program has been developed taking into account the National Qualifications Framework, professional standards, and the Atlas of New Professions and Competencies of Kazakhstan in the field of oil refining and petrochemistry.
11	Education form	Full-time
12	Period of training	3 years
13	Amount of credits	180
14	Languages of instruction	Kaz, Russian ,English
15	Academic degree awarded	Doctor of Engineering (Industry)
16	Developer(s) and authors	Albayeva Zh. T., Selenova B. S., Mangazbayeva R. A., Aitkaliyeva G. S., Nauryzova S. Z., Adikanova D. B., Rafikova Kh. S.