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

Education program

8D07108 The main processes of synthesis and production of new organic and polymeric 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 8D07108 The main processes of synthesis and production of new organic and polymeric 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 8D07108 The main processes of synthesis and production of new organic and polymeric materials was reviewed and developed at the meeting of the Academic Committee.

Minutes № 5 dated December 19, 2025.

General information

№	Field name	Note
1	Code and classification of the field of education	8D07 Engineering, manufacturing and construction industries
2	Code and classification of areas of study	8D071 Engineering and Engineering»
3	Group of educational programs	D097 Chemical Engineering and Processes
4	Name of the educational program	8D07108 The main processes of synthesis and production of new organic and polymeric materials
5	Brief description of the 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 doctoral students with the opportunity to choose an appropriate educational trajectory that includes individual competencies reflecting the specifics of a particular specialization.
6	Purpose of the OP	To train highly qualified scientific, pedagogical, and research professionals possessing fundamental knowledge, advanced research competencies, and a high level of professional expertise in the field of synthesis, production, and investigation of novel organic substances and polymer materials, capable of addressing current scientific and technological challenges of the chemical industry and sustainable development.
7	OP type	new
8	NQF level	8
9	ORC level	8
10	Distinctive features of the OP	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	Form of study	Full-time
12	Training period	3 years
13	Volume of loans	180
14	Languages of instruction	Kazakh, Russian and English
15	Awarded Academic Degree	Doctor of Philosophy PhD
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.