Mining and Metallurgical Institute named after O.A. Baikonurov

Department of "Materials Science, Nanotechnology and Engineering Physics"

EDUCATIONAL PROGRAM

8D05301 Applied and Engineering Physic

Code and classification of the field of education: **8D05 Natural sciences, mathematics and statistics**
Code and classification of training directions: **8D053 Physical and chemical sciences**
Group of educational programs: **D090 Physics**

Level based on NQF: 8
Level based on IQF: 8
Study period: 3 years
Amount of credits: 180

Almaty 2026

The Educational Program 8D05301 Applied and Engineering Physic was approved at the meeting of the Management Board of Satbayev University
Minutes No. 5 dated «10» 03 , 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 «26» 02 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. 3 dated «25» 12 2025 .

The Educational Program 8D05301 Applied and Engineering Physic was reviewed and developed at the meeting of the Academic Committee.

Minutes No. 2 dated «20» 10 , 2025.

4.1. 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	D090 Physics
4	Educational program name	8D07103 Applied and engineering physics
5	Short description of educational program	Educational program 8D05301 Applied and engineering physics is the third level of qualification of the three-level higher education system
6	Purpose of EP	Training highly qualified specialists capable of solving complex scientific and engineering problems, performing engineering analysis and design, planning and conducting independent scientific research, and working effectively in and leading research teams.
7	Type of EP	New
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	-
11	Education form	Full - time
12	Period of training	3
13	Amount of credits	180
14	Languages of instruction	Kazakh, Russian,English
15	Academic degree awarded	Doctor of Philosophy (PhD).
16	Developer(s) and authors	Mutushev Alibek Zhumabekovich Kakimov Ulan Kadyrkhanuly Azat Seythan Kudaibergenov Kenes Kakimovich Kemelbekova Ainagul Erzhanovna Yetish Talshyn Erbolkyzy