



A. Burkitbayev Institute of Power and Mechanical Engineering

Department of «Mechanical engineering»

EDUCATIONAL PROGRAM

6B07131- Design and technology in mechanical engineering

Code and classification of the field of education: 6B07-Engineering, manufacturing and construction industries

Code and classification of training directions: 6B071-Engineering and engineering affairs

Group of educational programs: B064-Mechanics and metal working

Level based on NQF: 6

Level based on IQF: 6

Study period: 4 years

Amount of credits: 240

Almaty 2025

Educational program 6B07131 – Design and technology in mechanical
(code and name of educational program)

engineering

was approved at the meeting of K.I. Satbayev KazNRTU Academic Council

Minutes 10 dated «06» 03 2025.

was reviewed and recommended for approval at the meeting of K.I. Satbayev
KazNRTU Educational and Methodological Council

Minutes 3 dated «20» 12 2024.

Educational program 6B07131- Design and technology in mechanical
(code and name of educational program)

Engineering

was developed by Academic committee on direction of "6B071-
Engineering and Technology "

Full name	Academic degree/ academic title	Position	Workplace	Signature
Teaching staff:				
Nugman E.Z.	Doctor PhD, Associate Professor	Head of the Department of "Mechanical Engineering"	Institute of Energy and Mechanical Engineering named after A.Burkitbaev	
Kerimzhanova M.F.	Candidate of Technical Sciences, Docent	Professor	Department of Mechanical Engineering	
Uderbayeva A.E.	Doctor PhD	Assoc. Professor	Department of Mechanical Engineering	
Employers:				
Andreev V.I.		General Director	Kazecotech STE LLP	
Students				
Myrzakhan A.		1st year doctoral student	Department of "Mechanical Engineering"	

General information

№	Field name	Comments
1	Code and classification of the field of education	6B07- Engineering, manufacturing and construction industries
2	Code and classification of training directions	6B071- Engineering and engineering affairs
3	Educational program group	B064- Mechanics and metal working
4	Educational program name	6B07131- Design and technology in mechanical engineering
5	Short description of educational program	The professional activity of graduates of the program is aimed at the application of modern technologies of digitalization of machine-building production. In the educational program, students will gain professional knowledge of industrial design of machines and mechanisms, acquire skills in computer-aided design of machine structures and their parts, design of technological processes for the production of machines using modern software products (CAD /CAM/CAE/PLM).
6	Purpose of EP	Training of qualified and in-demand specialists in the labor market who are able to develop and implement innovative technological and design solutions, apply additive, scientific and resource-saving technologies aimed at the sustainable development of mechanical engineering, socio-economic and environmental development of society.
7	Type of EP	Innovative
8	The level based on NQF	6
9	The level based on IQF	6
10	Distinctive features of EP	-
11	Education form	full-time
12	Period of training	4 years
13	Amount of credits	240
14	Languages of instruction	Kazakh, Russian, English
15	Academic degree awarded	Bachelor of engineering and technology
16	Developer(s) and authors	The educational program was developed by Academic committee on direction "6B071-Engineering and Technology "