



**SATBAYEV
UNIVERSITY**

A. Burkitbayev Institute of Power and Mechanical Engineering

Department of «Mechanical engineering»

EDUCATIONAL PROGRAM

7M07112 - Digitalization of engineering manufacturing

Code and classification of the field of education: 7M07-Engineering, manufacturing and construction industries

Code and classification of training directions: 7M071-Engineering and engineering affairs

Group of educational programs: M103-Mechanics and metal working

Level based on NQF: 7

Level based on IQF: 7

Study period: 2 years

Amount of credits: 120

Almaty 2025

Educational program **7M07112- Digitalization of engineering**

(code and name of educational program)

manufacturing

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 **7M07112- Digitalization of engineering**

(code and name of educational program)

manufacturing

was developed by Academic committee on direction of "7M071-
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	7M07- Engineering, manufacturing and construction industries
2	Code and classification of training directions	7M071- Engineering and engineering affairs
3	Educational program group	M103- Mechanics and metal working
4	Educational program name	7M07112 - "Digitalization of engineering manufacturing".
5	Short description of educational program	The professional activity of graduates of the educational program is directed to the field of digitalization of machine-building production. In the educational program, students will receive professional knowledge of digital design and modeling of product structures, advanced materials and additive technologies; current problems of scientific research, the basics of research activities, lean digital production, scientific and pedagogical activities. They will acquire the skills of designing and developing business processes, technological processes of additive manufacturing, analysis of automated production technologies.
6	Purpose of EP	The purpose of EP 7M07112 - Digitalization of engineering manufacturing high-quality training of highly qualified and competitive specialists with creative thinking, ready for production, technological, scientific and pedagogical activities in the conditions of innovative digital engineering.
7	Type of EP	New
8	The level based on NQF	7
9	The level based on IQF	7
10	Distinctive features of EP	Dual degree EP
11	Education form	full-time
12	Period of training	2 years
13	Amount of credits	120
14	Languages of instruction	Russian, Kazakh
15	Academic degree awarded	Master of technical sciences
16	Developer(s) and authors	The educational program was developed by Academic committee on direction "7M071-Engineering and Technology "