



**Institute of Automation and Information Technology
Department of Higher Mathematics and Modeling**

EDUCATIONAL PROGRAM

8D06105 Digital modeling

Code and classification of the field of education: 8D06 Information and
Communication Technologies

Code and classification of training directions: 8D061 Information and
Communication Technologies

Group of educational programs: D094 Information Technologies

Level based on NQF: 8

Level based on IQF: 8

Study period: 3 years

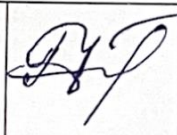

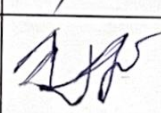
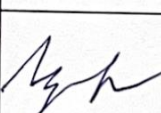
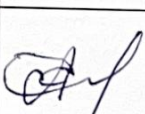

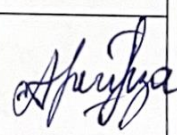
Amount of credits: 180

Almaty 2025

Educational program 8D06105 – «Digital modeling» approved at the meeting of the Academic Council of KazNRTU named after K.I. Satpayev.
Protocol No.10 of «06» March 2025 year.

Considered and recommended for approval at the meeting of the Educational-Methodical Council of KazNRTU named after K.I. Satpayev.
Protocol No. 3 of «20» December 2024 year.

Educational program 8D06105 – «Digital modeling» developed by the academic committee for the direction 7M061 «Information and communication technologies».

Name and surname	Degree/ academic title	Position	Place of work	Sign
Chairman of the Academic Committee:				
Tulesheva Gulnara Alipovna	Candidate of Physical and Mathematical Sciences, associate professor	Head of Department	KazNRTU named after K.I. Satpayev	
Academic Committee members:				
Sakabekov Auzhan Sakabekovich	Doctor of Physical and Mathematical Sciences, professor	Professor	KazNRTU named after K.I. Satpayev	
Alimzhanova Zhanna Muratbekovna	Candidate of Physical and Mathematical Sciences	Associate Professor	KazNRTU named after K.I. Satpayev	
Lukpanova Lazzat Khamitovna		Senior Lecturer	KazNRTU named after K.I. Satpayev	
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Students				
Moldakalyko va Aigul Zhoyamergen ovna		Doctoral student	KazNRTU named after K.I. Satpayev	

General information

№	Field name	Comments
1	Code and classification of the field of education	8D06 Information and Communication Technologies
2	Code and classification of training directions	8D061 Information and Communication Technologies
3	Educational program group	D094 Information Technologies
4	Educational program name	8D06105 Digital modeling
5	Short description of educational program	The educational program is designed to train scientists in the field of mathematical and computer modeling of various processes and complex systems, to acquire competitive knowledge and the ability to apply it to the creation of new methods in the mathematical and computer modeling of three-dimensional objects and the solution of applied problems.
6	Purpose of EP	The purpose of the educational program «Digital modeling» is to train doctors of philosophy (PhD) with the relevant competencies of doctors of sciences in the field of digital modeling, specialists who are able to develop a digital double for a physical object or process, and help optimize the efficiency of production.
7	Type of EP	Innovative EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	No
11	Education form	Full-time
12	Period of training	3 years
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	Azhibekova A.S., Lukpanova L.Kh.