



**Institute of «Architecture and Construction named after T.K. Basenov»**

**Department of «Engineering systems and networks»**

## **EDUCATIONAL PROGRAM**

**8D07311 «Innovative technologies of engineering systems in industry»**

Code and classification of the field of education: **8D07 Engineering, manufacturing and construction industries**

Code and classification of training directions: **8D073 Architecture and construction**

Group of educational programs: **D127 Engineering systems and networks**

Level based on NQF: **8**

Level based on IQF: **8**

Study period: **3 years**

Amount of credits: **180**

**Almaty 2025**

Educational program 8D07311 «Innovative technologies of engineering systems in industry» was approved

code and name of educational program




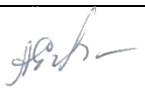
at the meeting of K.I. Satbayev KazNRTU Academic Council



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 8D07311 «Innovative technologies of engineering systems in industry» was developed by Academic committee based on direction 8D073 «Architecture and civil engineering».

Full name	Academic degree/ academic title	Position	Workplace	Signature
<b>Teaching staff:</b>				
Alimova Kulyash Kabpasovna	cand. tech. sciences	Head of Department	NPJSC «Kazakh National Research Technical University named after K.I.Satbayev», department "Engineering systems and networks"	
Halkhabay Bostandyk	cand. tech. sciences, docent	Associate Professor	NPJSC «Kazakh National Research Technical University named after K.I.Satbayev», department "Engineering systems and networks"	
Khoyshev Amirkhan	cand. tech. sciences	Associate Professor	NPJSC «Kazakh National Research Technical University named after K.I.Satbayev», department "Engineering systems and networks"	
<b>Employers:</b>				
Zhumartova Aliya		headmaster	LLP "Research Center Eco Zhubalau"	

<b>Students:</b>				
Kabaev Batyrkhan		Student	3rd course, EP ESaN	
Baikenes Asylan		Master's student	2nd course, EP ESaN	

## General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 «Engineering, manufacturing and civil engineering»
2	Code and classification of training directions	8D073 «Architecture and civil engineering»
3	Educational program group	D127 «Engineering systems and networks»
4	Educational program name	8D07311 «Innovative technologies of engineering systems in industry»
5	Short description of educational program	<p>The innovative educational program provides training of scientific personnel focused on scientific, experimental research, activities in the field of design of heat and gas supply, ventilation, water supply, sewerage, water supply and sanitation systems of settlements, industrial enterprises, water management and hydropower systems. The graduate is awarded the academic degree of Doctor.</p> <p>Doctoral students study the creation of new technologies in the field of heat and gas supply, ventilation, water supply, sewerage, hydraulic engineering and hydropower facilities.</p> <p>Much attention is paid to intellectual entrepreneurship, the development of applied projects for the real sector of the economy and the commercialization of launched projects.</p> <p>Doctoral students actively participate in research projects under the guidance of foreign consultants. Doctoral study plans include mandatory internships at leading foreign universities.</p> <p>Preparation and defense of the dissertation are conducted under the supervision of 2 scientific supervisors, domestic and foreign.</p>
6	Purpose of EP	Practice-oriented education and training of highly qualified specialists ready for successful implementation of production activities in the field of designing engineering systems and networks using innovative industrial technologies.
7	Type of EP	Innovative
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	No
13	Education form	Full - time
14	Period of training	3
15	Amount of credits	180
16	Languages of instruction	Kazakh, russian, english
17	Academic degree awarded	Doctor by professional profile
18	Developer(s) and authors	Alimova K.K., Berdali M.N., Aliyakbarova U.H.