



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

Department of «Engineering systems and networks»

EDUCATIONAL PROGRAM

8D07304 «Engineering systems and networks»

Code and name of educational program

Code and classification of the field of education: **8D07 Engineering, manufacturing and civil engineering**

Code and classification of training directions: **8D073 Architecture and civil engineering**

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




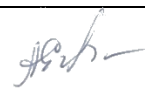
Educational program 8D07304 «Engineering systems and networks» was approved
code and name of educational program
 at the meeting of K.I. Satbayev KazNRTU Academic Council



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 8D07304 «Engineering systems and networks» was
code and name of educational program
 developed by Academic committee based on direction 8D073 «Architecture and civil engineering».

Full name	Academic degree/ academic title	Position	Workplace	Signature
Teaching staff:				
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"	
Employers:				
Zhumartova Aliya		headmaster	LLP "Research Center Eco Zhubalau"	

Students:				
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	8D07304 «Engineering systems and networks»
5	Short description of educational program	<p>The innovative educational program provides training of scientific personnel focused on scientific, experimental research, pedagogical 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 of PhD.</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	The purpose of the educational program is to train highly qualified specialists with basic competencies in the field of solving organizational and production tasks in the implementation of innovative, research projects, the formation of personnel in the field of engineering systems and networks, covering modern energy and resource-saving technologies.
7	Type of EP	New
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
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	Alimova K.K., Berdali M.N., Aliyakbarova U.H.