



«APPROVED»
Director of the T.K. Basenov
Institute of Architecture and civil engineering
Kuspangaliev B.U.
 _____ **2022 y.**

EDUCATIONAL PROGRAM DEVELOPMENT PLAN
6B07306, 7M07304, 7M07311, 8D07304 - "Engineering systems and networks"
6B11201, 7M11201 – "Occupational health and safety"
(with amendments and additions)

Areas of activity	Events	Dates, academic year					Responsible persons	Implementation mechanism
		2019 2020	2020 2021	2021 2022	2022 2023	2023 2024		
1. Effective management of the qualitative implementation of the educational program and improvement of the mechanisms of management of the educational process	1. Provision of OP with regulatory documents of the Ministry of Science and Higher Education of the Republic of Kazakhstan.: internal regulatory documents (DP, Regulations, Instructions, forms)	annually	annually	annually	annually	annually	The leadership of the university, Head of the Department.	Formation of requests for the purchase of regulatory documents in the Ministry of Science and Higher Education of the Republic of Kazakhstan., Work with the Department of QMS of KazNITU named after K.I. Satpayev
	2.Improving the structure of the EP	annually	annually	annually	annually	annually	The leadership of the university, Head of the Department.	Updating the content of the educational program of the specialty on the basis of modern domestic and international experience of training in this field, the requirements of employers and the demands of the labor market. Working with employers Monitoring the achievement of EP results.
	3. Development and improvement of the modular principle of EP formation	annually	annually	annually	annually	annually	Head of the Department	The formation of modules, taking into account the logical and meaningful interrelation of disciplines , ensuring a unified methodological approach of the module. Creating content for independent work, taking into account the integrated content of the educational material.
	4. Improving the curriculum (updateability)	annually	annually	annually	annually	annually	Head of the Department, teaching staff	Monitoring and analyzing the needs of employers and graduate satisfaction. Analysis of modern international experience in the direction of EP
	5. Systematic improvement of the	annually	annually	annually	annually	annually	Head of the Department,	Updating the educational and methodological

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	educational and methodological support of the educational program						Department of Academic Affairs	content taking into account the needs of employers and the satisfaction of graduates. Professional development of teaching staff
2. Training of competitive managerial personnel for the implementation of the EP	1. Improvement of the Educational Program based on the introduction of modern educational technologies and techniques into the educational process	annually	annually	annually	annually	annually	Head of the Department	Professional development of teaching staff. Discussion of the issues of improving teaching methods at the methodological seminar of the department and the Institute. Using interactive learning methods
	2. Development and improvement of the CED, taking into account the proposals of interested parties (stakeholders), primarily taking into account the opinion of employers.	annually	annually	annually	annually	annually	Head of the Department, Department of Academic Affairs	Annual updating of the disciplines of the MOB and the Work Curriculum according to the proposals of employers. Discussion at the meetings of the Department and the Academic Council of the CED Institute with employers
	3. Expansion of practical training of students at construction and housing enterprises and research institutes of the Republic	annually	annually	annually	annually	annually	Head of the Department, Department of Academic Affairs	Conclusion of agreements on interaction and cooperation with construction and housing enterprises and research institutes of the Republic
	4. Formation of a high-quality contingent of students	constantly	constantly	constantly	constantly	constantly	Head of the Department, teaching staff	Career guidance plan, constant updating of the site page
3. Improving the conditions for high-quality staffing of the EP.	1. Professional development of teaching staff for the organization of work in new conditions (remote technologies, etc.)	annually	annually	annually	annually	annually	Head of the Department, teaching staff, university management	Advanced training of teaching staff in leading foreign universities, in the CIS countries, housing and communal services enterprises.
	2. Training of own personnel through PhD doctoral	annually	annually	annually	annually	annually	Head of the Department, Department of Postgraduate Education	Employment of young specialists in graduate departments
	3. Participation of teaching staff in external and internal academic mobility programs	-	-	-	1	1	Head of the Department, Department of Academic Affairs	Participation of teaching staff in external and internal academic mobility programs, including the Bolashak scholarship program
	4. Inviting leading scientists from partner universities.	annually	annually	annually	annually	annually	Head of the Department, Department of Academic Affairs	The plan is to attract foreign scientists, including from leading universities (Top 400) to teach courses and organize joint research projects.
	5. Increasing the proportion of settled	10%	10%	10%	10%	15%	Head of the Department	Updating the staff of the teaching staff of the

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	teaching staff at the department							department on the basis of continuity – attracting the most competent graduates to teaching and scientific activities
4. Research and innovation activities in the development of the EP	1. Activation innovative developments, research and development at the department	3	3	4	4	4	Head of the Department, teaching staff	Involvement of teaching staff, students in proactive state budgetary and contractual research. Publication of research results in impact factor journals. Formation of the scientific school of the leading teaching staff of the department.
	2. Participation in grant and contractual research and projects	annually	annually	annually	annually	annually	Head of the Department, teaching staff	An increase in the number of grant and contractual studies, including within the framework of grant financing of the Ministry of Science and Higher Education of the Republic of Kazakhstan.
	3. Stimulating and motivating students to actively participate in scientific activities	annually	annually	annually	annually	annually	Head of the Department, teaching staff, university management	Participation in student conferences and creative work competitions. Involvement of students in the implementation of the cathedral scientific research. Participation in the annual Republican subject Olympiads
	4. An increase in scientometric indicators, an increase in the H-index (teaching staff, PhD doctoral).	2	2	3	3	3	Head of the department, teaching staff	Preparation of scientific publications in impact factor journals included in international scientometric databases (ThomsonReuters, WebofScience, Scopus, SciDirect)
5. Development of the resource potential for the implementation of the EP	1. Purchase of office equipment, scientific equipment, technical training tools, visual aids, etc.	annually	annually	annually	annually	annually	Head of the Department, university management	Annual procurement plans
	2. Creation of a new laboratory				+		Head of the Department, university management	Annual work plans of the department. Creation of a laboratory for heat supply, ventilation and air conditioning
	3. Purchase of new laboratory equipment	+	+	+	+	+	Head of the Department, university management	Annual procurement plans
	4. Development of information and educational resources of the department (website, portal, electronic teaching materials, etc.)	annually	annually	annually	annually	annually	Head of the Department, Department of Information Technology	Activities for the development of information and educational resources of the University

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	5. The growth of the rating of the department, teaching staff, stimulation and motivation of employees.	annually	annually	annually	annually	annually	Head of the department, teaching staff	teaching staff rating
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**Head of the Department
of Engineering Systems and Networks**

K. K. Alimova

Discussed at the meeting of the Department of Engineering Systems and Networks
Protocol No. 1 of 02.09.2019

With changes and additions
Discussed at the meeting of the Department of Engineering Systems and Networks
Protocol No. 1 of 16.08.2022