

**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF
KAZAKHSTAN**

**NON-PROFIT JOINT-STOCK COMPANY “KORKYT ATA KYZYLORDA
UNIVERSITY”**

EDUCATIONAL PROGRAMME DEVELOPMENT PLAN

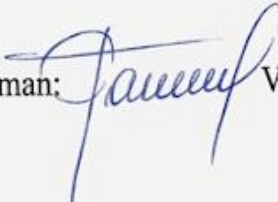
6B06150 – “Computer Engineering and Software”

for 2026–2030

Kyzylorda, 2026

Approved by the Academic Quality Committee of
the Institute of Engineering and Technology

Protocol No. 8, dated "17" 04 2026

Committee Chairman:  V.B. Abzhalelov

«Considered at the meeting of the Educational Program
in "Computer Science"»

Protocol No. 10, dated "15" 04 2026

Head of the
Educational Program:  N.B. Konyrbayev

Educational Programme Developers

Members of the Employers' Council for Computer Engineering and Software	Information Technology Department, Kyzylorda Production Branch, QAZAQGAZ AIMAQ JSC
Key employers	A.Zh. Kuanyshbayev, Director of Grand Master Programming School LLP; A.U. Sarbalayev, Head of the IT Department, Kyzylorda Branch of QAZAQGAZ AIMAQ JSC
Employer representatives on the Academic Council	-
Key partner educational institutions and enterprises	Kyzylorda City Branch of Transtelecom JSC (KyzylordatransTelecom)
Department branches	

KEY OBJECTIVES OF EDUCATIONAL PROGRAMME DEVELOPMENT

Strategic Area 1. Expanding Access to University Educational Services

№	Performance indicators (share, percentage, number)	Unit	2026	2027	2028	2029	2030
1.	Student enrolment	persons	104	123	135	148	155
2.	Students admitted after technical, vocational or secondary education (accelerated study)	persons	20	28	39	41	58
3.	Students admitted after higher education	persons	0	10	23	31	42
4.	Admissions to full-time study (4 years)	persons	14	26	32	38	43
5.	Admissions to accelerated study (3 or 4 years)	persons	0	12	25	29	36
6	Number of graduates	persons	37	41	48	51	57

Strategic Area 2. Innovative Support for Educational Activities

№	Performance indicators (share, percentage, number)	Unit	2026	2027	2028	2029	2030
1.	Results of the Atameken NCE educational programme ranking	rank					

2.	Educational programme accreditation	fact	2024				
3.	Development of educational programmes with large and national companies, government bodies, associations and employers	fact	1	1	1	1	1
4.	Updating the programme in line with labour market requirements	fact	+	+	+	+	+
5.	Number of industry specialists involved in teaching	persons	3	3	4	5	6
6.	Share of academic staff holding academic degrees	%	40	42	44	45	48
7.	Number of teaching staff who completed subject-specific professional development	persons	3	5	7	10	10
8.	Share of programme graduates employed within the first year after graduation	%	75	78	80	83	85
9.	Share of full-time graduates participating in educational quality assessment	%	100	100	100	100	100
10.	Employers participating in assessing graduate training quality	persons	3	3	4	4	5
11.	Share of full-time students evaluating teaching staff performance	%	100	100	100	100	100
12.	Share of graduates passing the national qualification test threshold (teacher education only)	%	-	-	-	-	-
13.	Number of MOOCs developed by programme teaching staff	units	2	4	6	10	15
14.	Share of university entrants holding Altyn Belgi distinctions or awards from international/national olympiads and research project competitions over the stated period	units	-	2	3	5	6
15.							

Strategic Area 3.

International Cooperation and Internationalisation

№	Performance indicators (share, percentage, number)	Unit	2026	2027	2028	2029	2030
I.	Межвузовское партнерство в рамках ОП:	units	1	1	1	1	1

	Двудипломные ОП						
	with a foreign university	units	-	1	1	1	1
	with a Kazakhstani university	units	-	1	1	1	1
2.	Number of programme courses taught in English	units	5	6	6	7	8
3.	Students participating in outbound international academic mobility	persons	1	2	2	3	3
4.	Students participating in outbound domestic academic mobility	persons	1	2	2	3	3
5.	Students participating in inbound domestic academic mobility	persons	1	2	3	4	4
6	Teaching staff participating in outbound domestic academic mobility	persons	1	1	2	2	2
7.	Teaching staff participating in inbound domestic academic mobility	persons	1	1	1	1	1
8.	Number of invited international scholars	persons	-	1	1	2	2
9.	Teaching staff participating in outbound international academic mobility	persons	-	1	2	2	2
10.	Number of teaching staff teaching in English	persons	3	4	4	5	5

Strategic Area 4. Developing the Innovation Ecosystem

№	Performance indicators (share, percentage, number)	Unit	2026	2027	2028	2029	2030
1.	Teaching staff involved in educational and research projects	persons	3	3	3	4	2
2.	Teaching staff conducting basic and applied research	persons	4	4	4	5	4
3.	Number of papers in Q1–Q3 Journal Citation Reports journals or Scopus journals ranked by CiteScore percentile	units	8	6	7	8	5
4.	Doctoral student papers in Thomson Reuters/Scopus journals with non-zero impact factor	units	1	1	1	1	1

5	Number of research projects under international cooperation	units	1	1	2	2	3
6	Publications in journals recommended by the national science and higher education quality assurance committee	units	6	7	8	8	10
7	Number of student publications	units	4	6	7	7	8
8	Students participating in scientific research	persons	2	4	5	5	5
9	Students participating in research competitions	persons	3	3	4	4	5
10	Students participating in national olympiads	persons	2	2	2	3	3

Strategic Area 5. Infrastructure Modernisation

№	Performance indicators (share, percentage, number)		2026	2027	2028	2029	2030
1	Expansion of computer facilities	units	20	20	25	25	17
2	Software procurement	units	3	3	4	4	2
3	Procurement of laboratory equipment and other items	units	3	3	4	3	2
4	Expansion of library holdings	units	20	20	25	25	20
5	Furniture procurement	units	5	6	6	5	3

3. RISK MANAGEMENT

The educational programme may face risks that could prevent the achievement of its objectives and target indicators.

Risks that may affect the achievement of objectives	Risk mitigation measures
Outflow of applicants to other regions and foreign countries	• Expand and intensify career guidance • Open representative offices in neighbouring and other countries

Increasing competition from universities offering related specialisations	• Strengthen outreach to school and college students across other regions of Kazakhstan and neighbouring countries
Shortage of qualified academic staff	• Launch new educational programmes • Train specialists at domestic and foreign universities • Develop a personnel reserve • Improve staff incentives and social benefits • Invite qualified academics through mobility programmes • Establish more industry-based department branches to involve experienced professionals
Delayed development of innovative educational programmes	• Run training seminars for programme designers with employers • Provide professional standards, instructions and methodological guidance • Strengthen academic councils by field of study
Declining quality of educational services	• Align programmes with approved professional standards • Involve stakeholders in programme design • Study stakeholder needs and expectations • Conduct independent expert reviews of programmes • Offer professional development in teaching methods • Improve physical and technical facilities • Survey students and teachers on educational quality • Organise educational quality focus groups • Maintain academic councils and quality committees
Declining relevance of taught knowledge	• Maintain regular feedback with students in and outside classes • Invite industry experts and international lecturers for lectures and workshops • Introduce elements of dual education • Develop supplementary minor programmes
Publication of staff research in predatory journals	• Organise training seminars • Inform staff about scholarly journals and their status
Low expert assessment scores for university research projects	• Hold training seminars • Conduct internal peer review of research projects

	• Hold open discussions of project topics, aims and expected outcomes
Low business interest in commercialising research outputs	• Identify business needs for research • Carry out research and development activities • Strengthen links with enterprises and businesses • Increase Employers' Council engagement
Deterioration of the technical characteristics of physical infrastructure	• Review existing infrastructure and equipment • Submit requests for new equipment • Update technical infrastructure regularly • Use virtual laboratories and digital laboratory equipment
Low applicant motivation	• Strengthen recruitment outreach to talented young people • Provide university scholarships and tuition discounts • Improve the preparatory division and recruitment centre • Build partnerships with major regional enterprises for targeted training

Head of the
Educational Program:

N.B. Konyrbayev