Ministry of Science and Higher Education of the Republic of Kazakhstan
Non-profit Joint Stock Company "Kyzylorda University named after Korkyt Ata"

**DEVELOPMENT PLAN FOR THE JOINT EDUCATIONAL PROGRAM (JEP)
SEOULTECH**
6B01501 – Computer Science (AI) / 6B01501 - Computer Science (AI)
for 2024-2028

Kyzylorda 2024

1. BASIC DATA

1. **Responsible University**: Kyzylorda University named after Korkyt Ata
2. **Partner University**: Seoul National University of Science and Technology (SeoulTech), South Korea
3. **Implementation Period**: 2025-2029
4. **Target Audience**: High school graduates, college students, bachelor's degree students
5. **Format**: Full-time education, combined (online and offline)
6. **Languages of Instruction**: English, Russian, Kazakh
7. **Educational Areas**: Artificial Intelligence, Programming, Cybersecurity, Machine Learning

APPROVED
at the meeting of the Academic Quality Committee of the Institute Artificial Intelligence
protocol no. ___9___ of " 26.04" 2024 г.

Chairman_____ Kulmurzaev N.S.
 (signature)

1. PROGRAM DEVELOPERS

Members of the Employer Council for the Program "Informatics":	Municipal State Institution "Kyzylorda Regional Training Center (methodical office) of the Department of Education of the Kyzylorda region" - Head Askarov Syrym Kurmangazievich
Main employers	AOO "Nazarbayev Intellectual Schools" "BILIM-INNOVATION" Lyceum
Members of the Academic Council among employers	-
The main educational institutions and enterprises with which cooperation is carried out within the framework of the OP	KSU "Information Technology Center" Department of Digital Technologies of the Kyzylorda region Information Technology Department of the Kyzylorda Production branch of KazTransGazAimak JSC, Kazakhtelecom JSC, Transtelecom JSC, SeoulTech
Branches of the department	KSU "Information Technology Center" of the Digital Technology Department of the Kyzylorda region The "Grand Master" Programming School

1. The main objectives of the educational program development

Strategic direction 1. Expanding access to university educational services

№	Performance indicators (percentage, percentage, quantity)	Unit of measurement	2025	2026	2027	2028	2029
1.	Number of students	people	100	100	100	100	100
2.	Number of students after secondary technical or middle education (accelerated training)	people					
3.	Number of students after higher education	people					
4.	Enrollment in full-time study, 4 years	people	100	100	100	100	100
5.	Enrollment in accelerated form of study (3 years, 4 years)	people					
6	Graduation	people			100	100	100

Strategic Direction 2: Innovative Support for Educational Activities

№	Performance indicators (percentage, percentage, quantity)	Unit of measurement	2025	2026	2027	2028	2029
1.	Program Ranking in the NCE "Atameken"	position	3	2	2	2	2
2.	Program Accreditation	fact			+		
3.	Development of educational programs with the involvement of large companies, national companies, government agencies, associations, and employers	fact	1	1	1	1	1
4.	Program updates according to labor market requirements	fact	+	+	+	+	+
5.	Number of industry specialists involved in the educational process	people	1	3	4	4	4
6.	Percentage of teaching staff with academic degrees	%	60	60	80	80	80
7.	Number of teaching staff who completed professional development courses in the subject area	people	10	10	15	15	20
8.	Percentage of graduates employed within the first year after graduation	%			90	95	95
9.	Percentage of university graduates participating in the assessment of the quality of educational services (full-time study)	%			100	100	100
10.	Number of employers involved in assessing the quality of specialist training	people	5	6	7	7	7

11.	Percentage of students involved in the assessment of teaching staff (full-time study)	%	100	100	100	100	100
12.	Percentage of graduates who passed the minimum score on the National Knowledge Test (only for pedagogical specialties)	%	-	-	-	-	-
13.	Number of MOOCs developed by program teaching staff	units	2	3	6	8	10
14.	Percentage of entrants to universities with "Altyn Belgi" (Golden Mark) awards, international Olympiad winners, and winners of presidential, republican Olympiads, and scientific project competitions (awarded with diplomas of the first, second, and third degrees)	%	20	30	30	40	40

Strategic Direction 3: International Cooperation and Internationalization

№	Performance indicators (percentage, percentage, quantity)	Unit of measurement	2025	2026	2027	2028	2029
1.	Inter-university partnerships within the program: Joint degree programs	units	1	1	1	1	1
	with a foreign university	units	1	1	1	1	1
	with a Kazakhstani university	units	-	-	-	-	-
2.	Number of disciplines in the program taught in English	units	8	10	15	20	20
3.	Number of program students participating in the outgoing academic mobility program	people			20	20	20
4.	Number of program students participating in the internal outgoing academic mobility program	people		5	5	10	10
5.	Number of program students participating in the internal incoming academic mobility program	people		5	5	10	10
6	Number of teaching staff participating in the internal outgoing academic mobility program	people		1	1	1	2
7.	Number of teaching staff participating in the internal incoming academic mobility program	people	1	1	1	2	2
8.	Number of foreign scientists involved	people	2	2	4	4	4
9.	Number of teaching staff participating in the external outgoing academic mobility program	people		2	2	2	2
10.	Number of teaching staff teaching in English	people	5	6	6	6	6

Strategic Direction 4: Development of the Innovative Ecosystem

№	Performance indicators (percentage, percentage, quantity)	Unit of measurement	2025	2026	2027	2028	2029
1.	Number of teaching staff involved in educational and research projects	people	6	15	20	20	25
2.	Number of teaching staff involved in fundamental and applied research	people	3	5	5	8	10
3.	Number of publications in journals in the first, second, and third quartiles according to Clarivate Analytics' Journal Citation Reports or indexed in Scopus	units	2	3	6	8	10
4.	Number of publications by doctoral students in journals with non-zero impact factor indexed in ThomsonReuters/Scopus	units			2	2	3
5.	Number of research projects under international cooperation	units	-	-	1	1	1
6.	Number of publications in journals recommended by KKSON	units	2	4	5	7	10
7.	Number of student publications	units	2	2	4	6	15
8.	Number of students involved in scientific research	people	2	2	2	3	3
9.	Number of students participating in scientific competitions	people	12	15	17	19	20
10.	Number of students participating in republican Olympiads	people	2	4	8	10	20

Strategic Direction 5: Infrastructure Modernization

№	Performance indicators (percentage, percentage, quantity)	Unit of measurement	2023	2024	2025	2026	2027
1	Development of the computer park	units	8	9	12	15	17
2	Purchase of software	units	2	3	4	5	6
3	Purchase of laboratory equipment, etc.	units	1	1	1	1	1
4	Expansion of library resources	units	70	100	200	210	215
5	Purchase of furniture	units	5	8	8	10	12

8. RISK MANAGEMENT

The program may encounter several risks that hinder the achievement of goals and targets.

Risk Name	Risk Management Activities
Failure to meet enrollment targets due to student outflow to other regions or countries	- Expand and activate career guidance work in urban and regional schools and colleges; - Open representative offices in neighboring and foreign countries
Increased competition in the educational services market	- Enhance career guidance work among school and college students, reaching other regions of Kazakhstan and neighboring countries
Lack of specialized literature in English for multilingual student groups	- Activate the publication of textbooks by the teaching staff of the department
Decrease in the relevance of the knowledge being transmitted	- Organize continuous feedback with students during and outside class time; - Invite industry specialists and foreign teachers to lecture, hold workshops, and engage with students; - Organize dual education classes; - Develop additional minor educational programs for students within the main educational programs
Publication of scientific articles in "predatory" journals	- Organize training seminars; - Inform teachers about scientific journals and their status
Risk of reduced student participation in extracurricular activities	- Develop initiatives to increase student motivation for extracurricular activities

Head of Educational Programs _____ **Kulmurzaev N.S.**