

Ministry of Science and Higher Education of the Republic of Kazakhstan  
Korkyt Ata Kyzylorda University Public Joint Stock Company

DEVELOPMENT PLAN  
educational program  
**6B06155 – Computing equipment and software**  
**For 2024-2029**

Kyzylorda, 2024

**APPROVED**

at a meeting of the Academic Council on educational areas

Protocol № 8 «21» 04 2024 y

Chairman  B.B. Abzhalelov

**REVIEWED**

at a meeting of the Department of Computer Science

Protocol № 9 «19» 04 2024 y

Head of the educational program  N.B. Konyrbaev

**BASIS FOR DEVELOPING THE EDUCATIONAL PROGRAM PLAN:**

**Korkyt Ata University Strategic Development Plan for 2024-2029**

## 1. DEVELOPERS OF THE EP

|   |   |
|---|---|
| <b>Members of the Employers' Council for the " Computer Science" EP</b>   | Ibadulla S.I., Director of the "Center for Information Technologies" of the Kyzylorda region akimat.  |
| <b>Major employers</b>  | "Information Technology Center" of the Department of Digital Technologies of Kyzylorda region KMU<br><br>Information Technology Department of the Kyzylorda Production Branch of "KazTransGasAimak" JSC |
| <b>Members of the Academic Council among employers</b>  | -   |
| <b>Key educational institutions, enterprises with which cooperation is carried out within the framework of the EP</b> | "Center for Information Technologies" of the Kyzylorda regional akimat.<br><br>Information Technology Department of the Kyzylorda Production Branch of "KazTransGasAimak" JSC                           |
| <b>Branch offices of the department</b>   | "Center for Information Technologies" of the Kyzylorda region akimat.<br><br>"Grand Master" programming school  |

## 2. MAIN GOALS OF EDUCATIONAL PROGRAM DEVELOPMENT

### Strategic direction 1. *Expanding access to university educational services*

| <i>N</i> <sup>o</sup> | Result indicators (share, percentage, number)   | Change unit | 2024 | 2025 | 2026 | 2027 | 2028 |
|-----------------------|---|-------------|------|------|------|------|------|
| 1.                    | Student contingent  | people      | 112  | 131  | 135  | 140  | 142  |
| 2.                    | Student contingent after secondary technical education. Vocational or secondary education (accelerated education) | people      | 4    | 7    | 10   | 11   |      |
| 3.                    | Student contingent after higher education   | people      | -    | -    | -    | -    | -    |
| 4.                    | Admission to full-time education, 4 years   | people      |      |      |      |      |      |
| 5.                    | Admission to accelerated education (3 years, 4 years)   | people      |      |      |      |      |      |
| 6                     | Exit  | people      |      |      |      |      | 4    |

### Strategic direction 2. *Innovative safety education activities*

| <i>N</i> <sup>o</sup> | Result indicators (share, percentage, number)  | Change unit | 2024 | 2025 | 2026 | 2027 | 2028 |
|-----------------------|--|-------------|------|------|------|------|------|
| 2.                    | Results of the rating of the EP NPP "Atameken" | place       |      |      |      |      |      |

|     |  |        |     |     |     |     |     |
|-----|--|--------|-----|-----|-----|-----|-----|
| 3.  | Accreditation of the EP  | fact   |     |     |     |     |     |
| 4.  | Development of an educational program with the participation of large companies, national companies, government agencies, associations and employers     | fact   | 1   | 1   | 1   | 1   | 1   |
| 5.  | Update of the EP taking into account the requirements of the labor market  | fact   |     |     |     |     |     |
| 6.  | Number of relevant specialists involved in the educational process   | people | 1   | 1   | 1   | 2   | 2   |
| 7.  | Proportion of teaching staff with scientific degrees in higher education institutions  | %      | 40  | 42  | 44  | 45  | 48  |
| 8.  | Number of teaching staff who have completed advanced training courses in their subject area  | people | 2   | 3   | 5   | 6   | 7   |
| 9.  | Number of teaching staff whose teaching staff is focused on improving the level of foreign language proficiency  | %      |     |     |     |     | 4   |
| 10. | The share of graduates of the Higher Education Institutions who were employed in the first year after graduation (out of the total number of graduates)  | %      |     |     |     |     | 100 |
| 11. | The share of graduates of higher education institutions participating in the assessment of the quality of educational services (full-time form of study) | people | 2   | 2   | 3   | 3   | 4   |
| 12. | The number of employers participating in the assessment of the quality of specialist training  | %      | 100 | 100 | 100 | 100 | 100 |
| 13. | The share of students participating in the assessment of the pedagogical activity of the pedagogical team (full-time form of study)                      | %      | -   | -   | -   | -   | -   |
| 14. | The share of graduates who passed the UNT cut-off score (only for pedagogical specialties)   | unit   | 1   | 2   | 2   | 3   | 3   |
| 15. | The number of MOOCs developed by teachers of the WB  | %      | -   | 1   | 1   | 2   | 2   |

**Strategic direction 3. *International cooperation and internationalization***

| <b>№</b> | <b>Result indicators (share, percentage, number)</b>                                      | <b>Change unit</b> | <b>2024</b> | <b>2025</b> | <b>2026</b> | <b>2027</b> | <b>2028</b> |
|----------|---|--------------------|-------------|-------------|-------------|-------------|-------------|
| 1.       | Interuniversity partnership within the framework of the Bachelor's degree:                | unit               | 1           | 1           | 1           | 1           | 1           |
|          | Double-degree Bachelor's degree   | unit               | 1           | 1           | 1           | 1           | 1           |
|          | with a foreign university   | unit               | -           |             |             |             |             |
| 2.       | Number of subjects taught in English according to the EP                                  | unit               |             |             |             |             |             |
| 3.       | Number of EP students participating in the Outward Eastern Academic Mobility Program      | people             |             | 1           | 1           | 2           | 2           |
| 4.       | Number of EP students participating in the Inward Eastern Academic Mobility Program       | people             |             | 1           | 1           | 2           | 2           |
| 5.       | Number of faculty members participating in the internal Eastern Academic Mobility Program | people             | 1           | 1           | 2           | 2           | 2           |
| 6.       | Number of participating foreign scholars  | people             |             | 1           | 1           | 1           | 1           |
| 7.       | Number of faculty members teaching in English   | people             |             | 1           | 1           | 1           | 1           |
| 8.       | Foreign scholars  | people             | -           | 1           | 5           | 5           | 5           |

**Strategic direction 4. *Development of an innovative ecosystem***

| <b>№</b> | <b>Result indicators (share, percentage, number)</b>   | <b>Change unit</b> | <b>2024</b> | <b>2025</b> | <b>2026</b> | <b>2027</b> | <b>2028</b> |
|----------|--|--------------------|-------------|-------------|-------------|-------------|-------------|
| 1.       | Number of faculty members involved in educational and research projects  | people             | -           | 1           | 2           | 2           | 2           |
| 2.       | Number of faculty members involved in basic and applied research   | people             | 1           | 2           | 2           | 3           | 4           |
| 3.       | Number of publications in journals included in the 1st, 2nd and 3rd quartiles according to Journal Citation Reports provided by Clarivate Analytics or with a percentage score in the Scopus database according to CiteScore | unit               | 1           | 2           | 2           | 3           | 4           |
| 4.       | Number of publications of scientific articles by doctoral students in journals with a non-zero impact factor included in the databases Thomson Reuters/Scopus  | unit               | 1           | 1           | 1           | 2           | 2           |

|    |   |        |   |   |   |   |   |
|----|---|--------|---|---|---|---|---|
| 5  | Number of scientific projects implemented within the framework of international cooperation | unit   | - | - | 1 | 1 | 1 |
| 6  | Number of publications in publications recommended by the CCSON                             | unit   | 2 | 3 | 4 | 5 | 5 |
| 7  | Number of student publications  | unit   | 1 | 2 | 2 | 3 | 3 |
| 8  | Number of students participating in scientific research                                     | people | 1 | 2 | 2 | 3 | 4 |
| 9  | Number of students participating in scientific competitions                                 | people | 1 | 2 | 2 | 3 | 4 |
| 10 | Number of students participating in republican olympiads                                    | people | - | 1 | 1 | 2 | 2 |

### Strategic directions 5. *Modernization of infrastructure*

| № | Result indicators (share, percentage, number)           | Change unit | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|---|-------------|------|------|------|------|------|
| 1 | Development of computer park                            | unit        | 15   | 15   | 17   | 20   | 20   |
| 2 | Purchase of software                                    | unit        | 2    | 2    | 3    | 3    | 3    |
| 3 | Purchase of laboratory equipment, etc.                  | unit        | 2    | 2    | 2    | 3    | 3    |
| 4 | Replenishment of library stock (specialized literature) | unit        | 20   | 21   | 22   | 24   | 25   |
| 5 | Purchase of furniture                                   | unit        | 2    | 2    | 3    | 3    | 5    |

### 6. Risk management

The OP may face a number of risks that hinder the achievement of the goal and the achievement of target indicators.

| The name of the risks that may affect the achievement of the goal                                    | Risk management measures  |
|--|---|
| The outflow of applicants to other regions of the country and to countries near and far abroad       | - expansion and activation of career guidance work;<br>- opening of representative offices in the countries of the near and far abroad    |
| Increased competition in the market of educational services from universities in related specialties | - strengthening career guidance among students of schools and colleges, coverage of other regions of Kazakhstan and neighboring countries |
| Lack of qualified scientific and pedagogical staff   | - opening of new educational programs at the university;<br>- training of specialists in domestic and foreign                             |

|   |   |
|---|---|
|   | <p>universities;</p> <ul style="list-style-type: none"> <li>- preparation of the personnel reserve;</li> <li>- improvement of the teaching staff motivation system and provision of a social package;</li> </ul>  |
| Untimely development of innovative educational programs | <ul style="list-style-type: none"> <li>-organization and holding of training seminars for developers of educational programs together with employers;</li> <li>-providing developers of educational programs with professional standards, instructions, guidelines and other documentation on the preparation of high-quality educational programs</li> </ul>   |
| Decrease in the quality of educational services         | <ul style="list-style-type: none"> <li>- development of educational programs in accordance with approved professional standards;</li> <li>- wide involvement of stakeholders in the development of educational programs;</li> <li>- studying the interests, requests, and needs of stakeholders;</li> <li>-conducting an expert assessment of educational programs;</li> <li>-organization and holding of training seminars, advanced training courses for teaching staff to improve pedagogical skills;</li> <li>-improvement of the material and technical base;</li> </ul> |
| Reducing the relevance of broadcast knowledge           | <ul style="list-style-type: none"> <li>-organization of feedback with students in classroom and extracurricular time on an ongoing basis;</li> <li>-inviting production specialists, foreign teachers to give lectures, conduct master classes</li> </ul>   |

Head of the department \_\_\_\_\_



N.B. Konyrbaev