

APPROVED
Director of Project Management Institute
Amrulinova B.B.



GRADUATE MODEL

Kazakh National Research Technical University named after K.I. Satbayev

Bachelor's degree in the educational program: 6B04103 "Business Engineering"

1. Brief description of the educational program

The educational program "*Business Engineering*" aims to train highly qualified specialists with competencies in project management, foreign economic cooperation, and the development of their own businesses and startups.

2. Components of the graduate model

2.1 Objectives of the educational program

The "Business Engineering" program trains professionals in business management by applying advanced theoretical and practical knowledge in enterprise architecture, business process reengineering, and project management.

2.2 Objectives of the educational program

- to study the key tasks of organizational development;
- to explore the methods and tools of business process engineering;
- to learn how to structure and integrate individual tasks into comprehensive development programs;
- to master practical tools for improving business engineering;
- to acquire skills in implementing organizational change and overcoming resistance to transformation;
- to master methods for evaluating the economic effectiveness of business engineering initiatives.

2.3 General and professional competencies

General competencies:

- Critical and strategic thinking.
- Communication and team management.
- Flexibility and adaptability to change.
- Ethics and sustainable development.
- Proficiency in a foreign language for professional communication.

Professional competencies:

- Analysis and optimization of business processes.
- Development and implementation of business strategies.
- Application of digital management tools.
- Project and change management.
- Financial and economic justification of decisions.

2.4 Expected positions and professional responsibilities

| Job title | Main responsibilities | Matching learning outcomes (LO) |
|---------------------------------------|--|---------------------------------|
| Project manager | Project planning and coordination, risk management. | PO3, PO4, PO5 |
| Business Analyst | Development of economic models, data analysis for optimization of business processes. | PO1, PO2, PO4, PO5, PO10 |
| Specialist By digital transformations | Implementation of digital solutions and process automation. | PO3, PO5, PO6 |
| Risk Management Consultant | Development of risk management strategies, evaluation of the effectiveness of decisions. | PO4, PO7, PO8, PO10, PO11 |
| Entrepreneur | Development and implementation of a business idea, startup management. | PO1, PO2, PO6, PO7 |

2.5 Matrix of correlation of learning outcomes and competencies

| Learning Outcomes (LO) | PC1 | PC2 | PC3 | PC4 | PC5 | PC6 | PC7 | PC8 | PC9 | PC10 | PC11 | PC12 |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| RO1 | | V | | | V | V | | | | V | | |
| PO2 | | V | | V | | | | | | | | |
| PO3 | | V | | | | | V | | | | | |
| PO4 | | | | | | | V | | | | | |
| RO5 | | | | | | V | | | V | | | |
| RO6 | | | V | | | | | V | | | V | |
| RO7 | | | | | | | | | V | | | V |
| RO8 | V | | | | | | V | V | | | | |
| RO9 | | | V | | | | | V | | | | |
| RO10 | V | | | | | | | | | | V | |
| RO11 | | | | | | | V | | | | | |
| RO12 | | | | | V | | | | | V | | |
| RO13 | | | | | | | | | V | | | V |
| RO14 | V | | | V | | | | | | | | |
| RO15 | V | V | | | V | | V | V | | V | V | |

2.6 Personal qualities of a specialist

- Proactivity and initiative
- Analytical and critical thinking
- Orientation on result
- Creativity and willingness to innovate
- Responsibility and leadership quality

3. Regulatory framework

- Law of the Republic of Kazakhstan "On Education";
- State educational standards;
- University development program for 2023–2027;
- Quality Policy of Satbayev University.

4. Academic mobility and cooperation

- Participation in international exchange programs and scientific conferences;
- Dual degree program with Shandong University

5. Conclusions

Graduates of the 6B04103 “Business Engineering” program are specialists capable of comprehensively analyzing, designing, and optimizing business processes within the context of digital transformation. They are equipped with analytical tools, digital solutions, and an engineering approach to business operations. The program prepares them for success in both corporate careers and entrepreneurial ventures.

Head of the Department of M&ME



Turegeldinova A.Zh.