E. Turkebayev Institute Yof Project Management Management
Department of Management and Mathematical Economics

EDUCATIONAL PROGRAM
7M04105 "MBA in the mining and metallurgical complex"

Code and classification of the field of education: **7M04 "Business, Management and law"**
Code and classification of training areas: **7M041 "Business and Management"**
Group of educational programs: **M072 "Management"**
NRC level: **7**
ORC Level: **7**
Duration of training: **2 years**
Amount of credits: **120**

Almaty 2023

The educational program 7M04105 **"MBA in the mining and metallurgical complex"** was approved at the meeting of the Academic Council of KazNTU named after K.I.Satpayev.

Protocol No. 13 of" 28" arpel 2020-22 г.

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of K.I.Satpayev KazNTU.

Protocol No. 7 отоf «26» April 2622, 2022

The educational program 7M04105 "MBA in the mining and metallurgical complex" was developed by the academic committee in the direction 7M041 "Business and Management".

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List of abbreviations and symbols

OP - oeducational program
RO-Learning outcomes
NRK-National Qualifications Framework
ORC-Industry Qualifications Framework

1 Description of the educational program

The educational program "**MBA in the mining and Metallurgical complex**" is aimed at preparing masters for solving a wide range of production tasks of a managerial nature based on the fundamental principles of business management using modern approaches and methods, as well as information technology. The training is guided by a broad system approach, when graduates make management decisions with a full understanding of the capabilities and limitations используемых of the advanced business technologies used and their integration.

2. Goals and objectives of the educational programель и задачи образовательной программы

Prepare top management specialists in the mining and metallurgical industry who are able to effectively manage both the production business and their own development in their interrelation in the current changes.

OP tasks:

1 Training of highlyqualified specialists:

-Providing students with in-depth knowledge of business and management in the mining and metallurgical industry.

-Development of professional skillsto effectively solve business зproblems.

2. Improving the levelof theoretical and practical knowledge:

-Teaching students modern methods of analysis, management and planning in the mining and metallurgical sector.

-Preparation for solving complexfinancial problems,
risk management and innovation.

3. Developmentof leadership and management skills:

-Formation of leadership qualities and abilities for highly effective management.

-Preparation for management ina mining and metallurgical company or organizations.

4. Preparation for international cooperation:

-Training in a multinational environment.

-Prepare for globalmarket conditions and international business.

5. Promotionof innovation and sustainable development:

-Preparation for the introduction of innovations in the mining and metallurgical industry.

-Training in the principles of corporate responsibility and sustainable development.

6. УкреплStrengthening your research skills:

-Development of the ability to conduct research in the mining and metallurgical industry.

-Preparation for the development and implementation of your own projects.

7. Communication skills training:
-Developing effective communication skills.

3. Requirements for evaluating the learning outcomes of an educational program

The educationalprogram was developed in accordance with the State Mandatory Standards of Higher and Postgraduate Education, approved by Order No. 2 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 (registered in the Register of State Registration of Regulatory Legal Acts under No. 28916) and reflects the results of training, on the basis of which curricula are developed (working curricula, individual training plans of students) and working training programs in disciplines (syllabuses).

Assessment of learning outcomes is carried out according to the developed test tasks within the educational program in accordance with the requirements of the state mandatory standard of higher and postgraduate education.

When evaluating learning outcomes, uniform conditions and equal opportunities are created for students to demonstrate the level of their knowledge, skills and abilities.

When conducting an interim assessment in an online form, online proctoring is used.

4. Passport of the educational program

4.1. General information

№	Field name	Note
1	Code and classification of the field of education	7M04 "Business, Management and law"
2	Code and classification of training	areas 7M041 "Business and Management"
3	Group of educational programs	M072 "Management"
4	Name of the educational program	7M04105 "MBA in the mining and metallurgical complex"
5	Brief description of the educational program	OP is aimed at preparing masters for solving a wide range of production tasks of a managerial nature based on the fundamental principles of business management using modern approaches and methods, as well as information technology. The training is guided by a broad system approach, when graduates make management decisions with a full understanding of the capabilities and limitations используемых of the advanced business technologies used and their integration.
6	The purpose of the EP	is to train top management specialists in the mining and metallurgical industry who are able to effectively manage

		both the production business and their own development in their interrelation in the current changes.
7	Type of OP	New
8	Level according to NRC	7
9	Level according to ORC	7
10	Distinctive features of OP	No
11	List of competencies of the educational program:	**K1 Strategic management:** -Ability to develop and implement strategic plans. -Ability to analyze business models. -Skills in assessing the competitiveness of enterprises in the mining and metallurgical industry. **K2 Financial analysis and management:** -Experience in analyzing the financial stability of companies. -Ability to create and manage budgets. -Working capital management skills. -Knowledge of investment planning methods. **K3 Risk Management:** -Ability to assess and manage risks related to the production and economic aspects of mining and metallurgical activities. **K4 Innovation and technological development:** - Knowledge of modern technologies and innovations in the industry. - Skills in developing innovation strategies**.** **K5 Corporate responsibility and sustainable development:** - Understanding the principles of corporate responsibility. - Knowledge of sustainable development as an important part of business practices. **K6 International interaction and globalization**: - Experience working in a multinational environment. -Willingness and ability to adapt to global market conditions. **K7 Communication skills and leadership:** -Effective communication skills. -Ability to lead and work in a team. **K8 Research skills:** -Ability to conduct research in the mining and metallurgical industry. -Skills in developing and implementing your own projects.
12	Learning outcomes of the educational program:	**PO1:** Demonstrate and apply modern theories and methods of the main business disciplines, as well as statistical tools for analyzing thebusiness environment. **PO2:** Assess the business environment and develop strategies to effectively respond to the company's challenges, threats, and opportunities, while recognizing ethical dilemmasin complex business situations.

		PO3: Generate and distribute logical, relevant, professional information in an efficient manner foran optimal assessment of the company's business activity. **PO4:** Generalize and apply effective leadership and team membership theories to coordinate organizationalactivities and manage change. **PO5:** Operate and apply theories of team composition, process, and motivation to effectivelymanage workgroups. **PO6:** Prepare, monitor, and analyze financial,budgetary, and statistical reports. **PO7:** Apply research methods in the subject area in order to conduct responsiblepersonal business research. **RO8:** Make optimal management decisions based on critical thinking by observing, analyzing, interpreting, explaining, reflecting, and evaluating specific company conditions and situations. **RO9:** Develop the master's student's intrapersonal and interpersonal skills, as well as cognitive abilities, to work effectively with othersand people in different business environments. **RO10:** Plan and execute research and application tasks and projects in relevant areas of expertise and specialization with a high level of personalautonomy and responsibility. **RO11:** The ability to demonstrate managerial skills and apply engineering principles in their work as a member and / or team leader to manageprojects in an interdisciplinary environment. **RO12:** The ability to design solutions to complex engineering problems and design systems, components, or processesthat meet specific needs.
13	Form of study	Full-time, online
14	Duration of study	2
15	Amount of credits	120
16	Languages of study	Kazakh, Russian, English
17	Academic degree awarded	mAgistr of Business Administration
18	Developer(s) and authors:	Turegeldinova A. Zh., Tsekhovoy A. F., Sultanbekova Zh. Zh., Salina A. P.

4.22. The relationship between the achievability of the generated learning outcomes in the educational program and academic disciplines

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
Cycle of basic disciplines University component															
1	Strategic management	Objective of the discipline: formation of knowledge of strategic management in the implementation of the enterprise development strategy in MMC. Brief description: Methodological foundations of strategic management. The main components of the strategic management paradigm (concept). Basic principles and components of strategic management, stages of corporate planning in the mining and metallurgical complex. Strategic marketing. Situational, managerial, and portfolio analysis of MMC enterprises. Analysis of strategic environmental factors. Competitive advantages. Goals and motivations of integration and diversification.	3	V						V			V		
2	Business studies	At the end of the course, the student should be able to identify key terms and concepts in the course of business research in MMC; analyze the business situation in MMC; understand how diversity, ethical, global and multicultural aspects, conduct primary research, including the creation of a basic research plan, the use of sampling procedures, the development of a tool for data collection, as well as data collection, processing, analysis and interpretation in MMC. Content of the discipline: Content and	3	V						V			V		

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		role of business research and business analytics in innovative activities of the mining and metallurgical complex; Initial stages of research: goal setting, planning, sources; Methods of primary research and statistical data processing; Qualitative methods of business research and mathematical modeling; Information resources and their use in business research and business analytics of MMC; Resources of international research and analytical companies; Popular standard analytical tools for market and technology analysis; Evolution of methods for financial and non-financial assessment of return on investment in new technologies.													
Cycle of basic disciplines Component of Elective component															
3	Project Management	The course examines the components of project management based on modern behavioral models of project-oriented business development management. The program is based on international standards PMI PMBOK, IPMA ICB and standards of the Republic of Kazakhstan in the field of project management. Features of organizational management of business development through the interaction of strategic, project and operational management are studied.	5								V		V	V	
4	Portfolio managementand projects and	, the aim of the course is to develop the Project Management Institute® standards for managing Portfolios and Project Programs in	5								V			V	

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
	programs In MMC	relation to MMC. In the course of training, undergraduates will apply tools and methods for managing project portfolios and resources allocated to them, as well as techniques and processes for launching, planning, executing, monitoring and completing programs, understanding the essence of these tools and the principles of their independent application in practice. Practical exercises are organized in a logical sequence that allows students to leave a complete picture of the main stages of the life cycle of project portfolios and programs, as well as the key difficulties of each stage.													
5	Agile in organizational Development Management	The aim of the course is to provide undergraduates with an understanding of the best principles and methods of Agile project management, which will allow them to start applying these methods to reduce project risks. Upon completion of the course, undergraduates will be able to expect to understand the basics of SCRUM for project management, including the roles, activities, and artifacts that make up SCRUM; they will be able to understand how SCRUM can be used on almost all types of projects. Content: features of management methodology; Network planning and management; Implementation of SCRUM methodology.	5			V						V			
6	Logistics in MMC	Course content: Concept, goals and objectives of logistics in production. The conceptual framework and essence of production logistics• * principles of organization and structure of	5											V	V

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		the production process, within which the material flow is organized • * types of material flow movement; •systems and methods of operational planning and management of material flow, including those used in the concepts of MRP I, MRP II, ERP, JIT and KANBAN.													
7	Integrated information systems in mining	As part of the course, the master's student will master the practical use of information systems in mining. The main knowledge and skills in the use of technology and information systems of automatic design in the development of mineral deposits for independent practical activities, as well as methods for planning open-pit and underground mining operations will be presented. After completing the course, the student must demonstrate performance in calculation, analysis, synthesis and design, as well as distinguish between software.	5											V	V
Cycle of profile disciplines University component															
28	Management psychology and personal development of a top manager	The purpose of studying the discipline is to familiarize students with modern ideas about the role and multidimensional content of the psychological component of managerial activity; to improve the psychological culture of the future master for the successful implementation of professional activities and self-improvement. Content of the discipline: Subject and history of management psychology; Management in post-industrial society; Personality of the manager;	5				V					V			

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		Structure and content of the management system and psychological content of management functions.													
29	Motivational management	The purpose of the course is to understand the essence and features of motivational management in the enterprise, to lay the foundation for knowledge of theoretical and methodological aspects and skills of practical application of techniques and methods of motivation and labor stimulation, development of incentive systems, projects and programs, and ensuring the effective functioning of the motivational mechanism in a dynamic market environment; to get acquainted with domestic and. Content: Motivation of labor activity: place and role in the enterprise management system; General characteristics of the motivational process; Socio-cultural factors of motivation; The role of management in the formation of enterprise policy in the field of motivation; Content theories of motivational activity; Procedural theories of motivational activity.	5					V							
30	Theory and practice of business leadership The	aim of the course is to develop undergraduates ' skills in analyzing the organizational situation and choosing appropriate ways of professional behavior and interaction between the manager (leader) and subordinates (followers), as well as to increase the leadership potential of undergraduates. Contents: Theoretical foundations of leadership; Leadership and leadership styles; Evaluation of the effectiveness of an individual leadership	4				V					V			

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		style in an educational organization; Team as a leadership tool; Influence and power in an educational organization.													
31	Emotional intelligence	The purpose of studying the discipline "Emotional Intelligence" is to form students ' theoretical and practical knowledge, skills and abilities of emotional competence in managing value chains, as well as the formation of emotionally competent behavior necessary for the professional activity of a high-level specialist based on taking into account the emotional factor in the business processes of modern companies. After completing the course, the master's student should know the basic theoretical concepts of emotional intelligence; the principles of managing their emotions and the emotions of the team and group; be able to manage emotions in business interaction and apply innovative methods of managing teams and departments based on emotional intelligence. Content of the discipline: The concept and structure of "emotional intelligence"; Modern methods of evaluating emotional intelligence; Modern technologies for training and developing emotional intelligence of personnel; Emotional competence of a manager; Emotional intelligence and organizational culture; The concept of the group coefficient of emotional intelligence; A systematic approach to the introduction of emotional intelligence.	3					V				V			
32	Production practice	Production practice is conducted in order to	8												

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		consolidate the theoretical knowledge gained in the course of training, to acquire practical skills, competencies and professional experience in the master's degree program being taught, as well as to master best practices.													
8	. Foreign internship	Internships are one of the main organizational forms of additional professional education for undergraduates and are conducted for the purpose of forming and consolidating subject competencies and their subsequent use in professional activities.	4												
Cycle of profile disciplines Component of Elective component															
8	Human resource management	After completing the discipline, undergraduates will learn how to analyze the state and trends of the labor market in terms of meeting the organization's need for human resources. The course covers various conceptual approaches and methodological aspects of working with personnel. Much attention is paid to modern HRM technologies in the context of real business practice on the example of the best domestic and foreign companies. Contents: Management theory on the role of a person in an organization; Formation of human resources; Use of human resources; Personnel planning; Business evaluation of personnel; The role of the manager in the human resource management system; Human resource development; Management	5				V							V	

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		of organizational behavior of people and processes; Practice of human resource management.													
9	Quality Management	The discipline is focused on training highly qualified specialists who know and are able to use modern models of quality management systems, methods of their research, development, implementation, use and continuous improvement based on international and Kazakhstani standards. Content of the discipline: Basic concepts and definitions; History of business attitude to quality; Principles of modern quality management; Unification, rationing, standardization and certification as quality management tools; Structure, content and practice of applying MS ISO 9000 series. Special role of documentation in quality systems; Statistical methods of quality management; Self-assessment and audit of quality systems; Economic aspects of quality.	5			V								V	
10	Lean management	The discipline studies the basics of creating a value stream by qualified employees in Lean management; key aspects, implementation algorithms, Lean management models; production incentive concepts according to the basics of Lean management; methods and methods of implementing and developing Lean management in accordance with the synchronization of continuous improvement of the company's activities. Content of the discipline: Modern methods of Lean	5		V						V				

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		management in organizational development; Development of Lean management based on cross-functional activities and six sigma methods; Evaluation of Lean management implementation; Systematization of Lean management development methodology; Development of a project for implementing lean production tools.													
11	Marketing strategies	The main goal is to develop deep theoretical knowledge and practical skills in developing a marketing strategy within the business strategy of a modern enterprise. The main objectives of the course: mastering the theoretical provisions and basic principles of strategic planning; formation of skills and abilities of effective decision-making in the field of complex marketing in the process of professional activity of trainees; formation of strategic thinking, comprehensive knowledge, practical skills in solving complex specific strategic marketing tasks facing enterprises.	5	V	V										
12	Risk management	After completing the discipline, undergraduates will know the concept of risk, learn how to manage risks, classify, plan, identify, conduct qualitative and quantitative risk analysis, plan risk responses, and control. Contents: Fundamentals of risk management theory; Methods for determining and evaluating risk; Organization of risk management; Practice of building management systems; Development of risk management models and methods.	5	V								V			

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
13	Marketing analysis	The purpose of the discipline: to form a set of knowledge, skills and competencies that allows analyzing market processes, customer behavior, the main economic and marketing aspects of an economic entity's activities in the entire marketing complex using a systematic approach. Content of the discipline: Marketing analysis of the market-definitions and classifications; Qualitative and quantitative assessment methods; Marketing analysis in various forms of trade; Key indicators of remote forms of trade; Key indicators of retail audit data.	5						V		V				
14	Highly rhythmic safe mining operations in deep quarries	The course introduces the theory and practice of implementing advanced technologies in open-pit mining of mineral deposits up to great depths with an in-depth study of the method of producing mining operations in steeply sloping layers on open-pit fields of elongated and rounded shape, the method of automated determination of optimal calendar volumes of mining operations when working out rock ledges overburden and ore from top to bottom with transverse panels in adjacent steeply sloping layers and a complex of studies on the completeness of safe extraction of near-contour and deep reserves based on optimization of the final contours of the quarry and the use of innovative technological complexes in the area of completion of deep quarries.	5											V	V
15	Promising areas of mineral processing	The course is designed for undergraduates, which studies the main trends in the field of development of the processes of ore	5											V	V

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		preparation of raw materials, flotation, gravity, magnetic and electric enrichment processes and the devices used, as well as the main trends in the development and improvement of processes that are used in the dewatering of mineral processing products. Basic knowledge and skills in the field of mineral processing will be presented. After completing the course, the master's student must demonstrate the ability to navigate the entire variety of enrichment methods used for processing mineral raw materials; analyze information obtained during research and development. The master's student should be able to: navigate the variety of processes and devices used in enrichment; use modern techniques; use technical literature.													
16	Digitalization of mines - "Smart Mine"	The course is intended for undergraduates of the specialty "Mining Engineering" with the aim of forming systematic knowledge in the field of digital information technologies that provide the collection, analysis, storage, processing and display of spatial data when conducting mining operations in the context of digitalization. In the course of studying the discipline, modern digital technologies will be considered. methods of planning mining operations, methods of digital analysis of the environmental consequences of mining operations and their impact on the environment, as well as methods of digitalization of main and auxiliary processes using modern computing software	5											V	V

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		complexes in the development of mineral deposits.													
17	Integrated supply chain planning	The aim of the discipline is to acquire skills in supply chain planning using modern information technologies. Content of the discipline: Modern system of integrated supply chain planning. Types of integrated supply chain planning. Methods of planning and forecasting the supply chain. Development of the idea of integration in supply chain management Internationalization and globalization of the world economy and their impact on the competitiveness of supply chains. In-house integrated planning. Planning sales and operations. Internal integration and consistency of the organization's plans. The role of information technology in integrated supply chain planning. Tasks of working with information in the supply chain. Key information technology groups to support integrated planning processes.	5			V								V	
18	Modern technologies of processing and processing of mineral raw materials and man-made waste	Within the framework of the course, the master's student will master theoretical and applied issues related to the field of modern technologies of processing and processing of mineral raw materials and man-made waste containing various valuable metals. The main knowledge and skills in the field of processing mineral and man-made raw materials, characteristic features of modern metal enrichment technologies, sources and main processes of processing mineral and man-made raw materials, as well as methods	5												V

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		for increasing metal recovery and reducing the cost of reagents, electricity and various materials will be presented. After completing the course, the master's student must demonstrate the ability to navigate the entire variety of enrichment methods used for processing mineral and man-made raw materials, as well as calculate costs when using modern technologies. Upon completion of the course, the master's student should know: basic technologies for processing and extracting metals from ores and concentrates, as well as technogenic mineral formations; methods of engineering calculations.													
19	Methodology of continuous quarry design	The course is aimed at mastering the methodology of continuous quarry design in market conditions, taking into account existing and new methods of intensive construction, technical re-equipment, phased field development, adjustment of the mining transport system, reconstruction and operation of quarries.	5											V	V
20	Communication strategies for leadership	The course is aimed at developing the skills of undergraduates to build a successful communication strategy in various fields: both interpersonal and professional. Undergraduates will get acquainted with communication tools in managing reputational risks of an organization, key trends in the development of social corporate responsibility practices in the modern world, current trends in corporate communication practices. Contents: Communication theory;	3				V					V			

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		Main forms of business communication; Features of cross-cultural business communications; Practical aspects of business communication; Training of team leaders; Sources of power and management styles; Personal resource and core competencies in the implementation of leadership positions; Team building as a key task of leaders-managers; Social conflicts in the team and their management.													
21	Negotiation skills	The aim of the course is to increase the effectiveness of students in conducting negotiations, to master techniques and methods that help them achieve their goals more often in the negotiation process, by studying specific communication skills, techniques and techniques. Content: Conflicts, their types and features of solving; Techniques and methods of handling conflicts; Drawing your own picture of the world in negotiations; Preparing for negotiations and developing a strategy; Negotiation skills in sales, interviews and public speaking; Group negotiations and negotiations in a team.	3									V			
22	Operational Management	The aim of the course is to master the operational approach to managing an organization, as the basis for ensuring the achievement of goals and solving the tasks set for the development of the organization. As a result of training, undergraduates acquire the ability to isolate operations and processes that are relevant to solving their goals and objectives, know how to calculate	5	V	V				V		V				

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		and evaluate the necessary production capacity, and have the skill to develop execution plans and evaluate business processes. Course content: Operational component of business; Practical content of operational management; Operating system, its organization and management principles; Calculation and placement of production capacities; Types of production, forms of specialization of structural divisions of the enterprise and forms of organization of processes; Organization of processes in space; Organization of processes in time; Main indicators of the organization's operational activity and evaluation of its results.													
23	Business Performance Management	After completing the course, the master's student will gain knowledge in management accounting built on the basis of CIMA P2 and covers the issues of planning and cost analysis for competitive advantages, monitoring and managing the effectiveness of responsibility centers, and making long-term decisions. Undergraduates will learn to understand the company's management accounting systems, use mechanisms for planning financial costs and evaluating competitive advantages, master skills in budgeting and management control, apply the knowledge gained in the process of making price and production decisions, and monitor and analyze the effectiveness of responsibility centers.	5	V		V					V				
24	Change management	The aim of the course is to develop skills in	5		V		V					V			

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		working in an environment where internal and external changes occur. At the end of the course, students will: Be able to organize and manage team work, develop a team strategy to achieve the goal; Be able to carry out critical analysis of problem situations based on a systematic approach, develop an action strategy; Be able to determine and implement priorities for their own activities and ways to improve them based on self-assessment. Contents: Theoretical foundations of change management in the organization; The concept and content of organizational changes, areas of implementation of changes; Types of changes in the organization; Stages of implementation of changes in the organization; Barriers to implementing changes: behavioral and organizational; Models for effective implementation of changes; The concept of continuous improvements. Methods of implementing continuous improvements in the company; Kaizen as a tool for continuous improvement of the organization; The model of four-dimensional education.													
25	Diagnostics and reengineering of business processes	The purpose of the course is to introduce students to the problems and areas of using business reengineering in the reorganization of enterprises. As a result of studying business process reengineering, undergraduates will gain knowledge on holistic and system modeling and reorganization of material, financial and information flows aimed at simplifying	5	V	V	V									

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
		business processes and organizational structure, redistributing and minimizing the use of various resources, reducing the time required to meet customer needs, and improving the quality of their service. Content: Business process and the need for its optimization; Business process as an object of management; The essence of business process reengineering and the need for its implementation; Principles of business process reengineering; Stages of business process reengineering; Technology of business process reengineering.													
26	Business Analysis	Completing the course will give undergraduates an understanding of the functions and impact of the role of a business analyst, with an emphasis on business analysis functions related to the development of enterprise-wide solutions and the life cycle of a business analysis project. The course examines the role of a business analyst, collecting and documenting user requirements, business modeling, business case analysis, process modeling, and quality management and testing.	5	V		V									
27	Financial Analysis and Project evaluation	In this discipline, undergraduates study methods of financial analysis and evaluation of investment projects. They will learn about financial performance, business plan analysis, project cost estimation, and investment decisions based on financial information and risks.	5						V		V				
Experimentalresearch work of the master's student															

#	Name of the discipline	Short description of the discipline	Number of credits	Generated learning outcomes (codes)											
				RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12
34	Experimental research work of the master's student, implementation of the master's thesis project	The purpose of experimental research work of the master's student is to form the general cultural and professional competencies necessary for conducting independent research work, the result of which is the writing and successful defense of the master's thesis (project).	20												
35	Experimental research work of a master's student, implementation of a master's thesis project	The purpose of experimental research work of a master's student is to form general cultural and professional competencies necessary for conducting independent research work, the result of which is the writing and successful defense of a master's thesis (project).	10												
Module of final attestation															
36	Preparation and defense of the master's thesis	Preparation and systematization of the collected materials. Preparing the presentation. Registration in accordance with regulatory documents. Submission of materials to the supervisor for approval.	12												

5. Curriculum of the educational program

КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ имени К.И.САТПАЕВА

SATBAYEV UNIVERSITY

УТВЕРЖДАЮ
Председатель правления-
Ректор КазНИТУ им. К.И.Сатпаева
М.М.Бегентаев
«22» 12 2022 г.

УЧЕБНЫЙ ПЛАН
ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ для набора на 2023-2024 уч. год

Образовательная программа 7М04105 - "МВА в горно-металлургическом комплексе"
Группа образовательных программ 7М041 - "Бизнес и управление"

Форма обучения: очная **Срок обучения: 2 года** **Академическая степень: магистр делового администрирования**

Код дисциплины	Наименование дисциплин	Цикл	Общий объём в кредитах	Всего часов	Аудиторный объём лек/лаб/пр	СРО (в том числе СРОП) в часах	Форма контроля	Распределение аудиторных занятий по курсам и семестрам			
								I курс		2 курс	
								1 семестр	2 семестр	3 семестр	4 семестр
М-1. Модуль базовой подготовки по формированию профессиональных компетенций											
MNG752	Стратегический менеджмент	БД ВК	3	90	1/0/1	60	Э	3			
MNG753	Бизнес исследование	БД ВК	3	90	1/0/1	60	Э	3			
компонент по выбору											
MNG736	Операционный менеджмент	ПД КВ	5	150	2/0/1	105	Э		5		
MNG708	Управление эффективностью бизнеса	ПД КВ		150	2/0/1	105	Э				
MNG295	Управление изменениями	ПД КВ		150	2/0/1	105	Э				
MNG729	Диагностика и реинжиниринг бизнес процессов	ПД КВ	5	150	2/0/1	105	Э		5		
MNG202	Бизнес анализ	ПД КВ		150	2/0/1	105	Э				
MNG284	Финансовый анализ и оценка проектов	ПД КВ		150	2/0/1	105	Э				
MNG704	Проектный менеджмент	БД КВ	5	150	2/0/1	105	Э	5			
MNG742	Управление портфелями проектов и программ в ГМК	БД КВ		150	2/0/1	105	Э				
MNG727	Agile в управлении развитием организации	БД КВ		150	2/0/1	105	Э				
MIN706	Интегрированные информационные комплесы в горном деле	БД КВ	5	150	1/2/0	105	Э			5	
LOG211	Логистика в ГМК	БД КВ		150	2/0/1	105	Э				
MNG288	Управление человеческими ресурсами	ПД КВ	5	150	2/0/1	105	Э	5			
MNG747	Управление качеством	ПД КВ		150	2/0/1	105	Э				
MNG748	Lean менеджмент	ПД КВ		150	2/0/1	105	Э				
MNG732	Маркетинговые стратегии	ПД КВ	5	150	2/0/1	105	Э			5	
MNG717	Управление рисками	ПД КВ		150	2/0/1	105	Э				
MNG750	Маркетинговый анализ	ПД КВ		150	2/0/1	105	Э				
MIN700	Высокоритмичное безопасное производство горных работ в глубоких карьерах	ПД КВ	5	150	2/0/1	105	Э		5		
MET284	Перспективные направления обогащения минерального сырья	ПД КВ		150	2/0/1	105	Э				
MIN705	Цифровизации рудников – «Умный рудник»	ПД КВ		150	2/0/1	105	Э				
TRA441	Интегрированное планирование цепей поставок	ПД КВ	5	150	2/0/1	105	Э			5	
MET708	Современные технологии обогащения и переработки минерального сырья и техногенных отходов	ПД КВ		150	2/0/1	105	Э				
MIN704	Методология непрерывного проектирования карьеров	ПД КВ		150	2/0/1	105	Э				
М-2. Модуль личностного развития											
MNG749	Психология управления и личностное развитие топ менеджера	ПД ВК	5	150	2/0/1	105	Э	5			
MNG733	Мотивационный менеджмент	ПД ВК	5	150	2/0/1	105	Э		5		
MNG738	Теория и практика лидерства в бизнесе	ПД ВК	4	150	2/0/1	105	Э			4	
MNG743	Эмоциональный интеллект	ПД ВК	3	150	1/0/1	105	Э	3			
MNG730	Коммуникационные стратегии лидерства	ПД КВ	3	150	1/0/1	105	Э		3		

MNG734	Навыки ведения переговоров	ПД КВ		150	1/0/1	105	Э				
М-3. Практико-ориентированный модуль											
AAP266	Производственная практика	ПД ВК	8								8
М-4. Научно-исследовательский модуль											
AAP262	Зарубежная стажировка	ПД ВК	4								4
AAP263	Экспёриментально-исследовательская работа магистранта, выполнение магистерской диссертации/проекта	ЭИРМ ВК	20							20	
AAP264	Экспериментально-исследовательская работа магистранта, выполне-ние магистерской диссертации/проекта	ЭИРМ ВК	10								10
М-5. Модуль итоговой аттестации											
ECA205	Оформление и защита магистерской диссертации	ИА	12								12
	Итого							24	23	39	34
								47		**73**	

Количество кредитов за весь период обучения					
Код цикла	**Циклы дисциплин**	**Кредиты**			
			вузовский компонент (ВК)	**компонент по выбору (КВ)**	**Всего**
БД	Цикл базовых дисциплин		6	10	16
ПД	Цикл профилирующих дисциплин		29	33	62
	Всего по теоретическому обучению:	*0*	*35*	*43*	*78*
	ЭИРМ		*30*		*30*
ИА	Итоговая аттестация	12			12
	ИТОГО:	12	65	86	120

Решение Учёного совета КазНИТУ им. К.Сатпаева. Протокол № 3 **от "** 27 **"** 10 **20** 22 **г.**

Решение Учебно-методического совета КазНИТУ им. К.Сатпаева. Протокол № 2 **от "** 21 **"** 10 **20** 22 **г.**

Решение Ученого совета института ИУП. Протокол № 3 **от** 17.10 **2022 г.**

Проректор по академическим вопросам — **Жаутиков Б.А.**

Директор института — **Амралинова Б.Б.**

Заведующий кафедрой — **Турегельдинова А.Ж.**

Представитель Совета от работодателей — **Некрасова Н.А.**