#### KARAGANDA ECONOMIC UNIVERSITY OF KAZPOTREBSOYUZ

"Agreed"	"I approve"
Director	Rector of Karaganda Economic
RSU of the Department of Ecology in	University of Kazpotrebsoyuz,
the Karaganda region of the	Doctor of Economics, Professor
Committee for Environmental	Aimagambetov E.B.
Regulation and Control of the	
Ministry of Ecology, Geology and	""2020 G.
Natural Resources of the Republic of	Approved at the meeting
Kazakhstan	Academic Council of KEUK
Musaparbekov K.Zh.	Protocol No. 9 of May 26, 2020
""2020 G.	

#### EDUCATIONAL PROGRAM

6B05201 - "Ecology"

Level: Bachelor's Degree (BA)

The educational program 6B05201 - "Ecology" is compiled on the basis of the State mandatory standard of higher/ postgraduate education, approved by the Order of the Ministry of Education of the Republic of Kazakhstan dated 31.10. 2018 No. 604 with amendments and additions dated 05.20 No. 182, the Rules for organizing the educational process on credit technology of education, approved by the Order of the Ministry of Education of the Republic of Kazakhstan dated April 20, 2011 No. 152 with amendments and additions dated 12.10.2018 No. 563.

#### **Developers (Academic Committee):**

Sadibek N.T. - Head of the Environmental Regulation Department of the Russian State University of the Department of Ecology in the Karaganda region

Baikenova G.G. - Doctor of Economics, Professor, Head of the Department of "Ecology and Assessment"

Ospanova G.K.- Candidate of Economics, Associate Professor of the Department of "Ecology and Assessment".

Tursynbaeva L.B. - student of the gr. ECO-41k in the specialty "Ecology"

#### **Reviewers (experts):**

Bekmukhametov A.M. - Deputy. Head of the RSU "Department of Ecology in the Karaganda region of the Committee for Environmental Regulation and Control and the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan

The educational program was discussed and approved at the meeting of the academic committee " 16 " April 2020, Protocol No. 2

The educational program was reviewed and recommended at a meeting of the Faculty's Educational and Methodological Council. Protocol No. 4 of April 24, 2020

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### 1. Passport of the educational program

№	Field name	Note
1.	Registration number	This field should be displayed after the initial saving of the application form. The field is blocked for editing
2.	Code and classification of the field of education	6B05 Natural Sciences, Mathematics and Statistics
3.	Code and classification of training areas	6B052 Environment
4.	Group of educational programs	In 051 Environment
5.	Name of the educational program	6B05201ECOLOGY
6.	Type of educational program	Values (by default - no value is selected): a) Current EP; + b) New EP; c) Innovative EP.
7.	The purpose of the educational program	High-quality training of bachelors in the field of ecology with fundamental knowledge in basic and core disciplines adapted to the requirements of labor and new technologies, capable of creative solution of theoretical and practical tasks of professional activity in modern conditions.
8.	Level according to the International standard classification of education	6
9.	Level according to the national qualifications framework	6
10.	Level by industry qualification standards	6
11.	Distinctive features of the educational program	a) No; + b) Joint EP (SOP) c) Double-degree EP (DOP)
	Partner University (SOP)	This field should be displayed if the value "Joint EP (SOP)" is selected in the "Distinctive features of the OP" field
	Partner University (two-degree educational programs)	This field should be displayed if the value "Double-degree EP (two-degree educational programs)" is selected in the "Distinctive features of the EP" field
12.	List of competencies	A matrix of correlation of learning outcomes according to the educational program with the
13.	Learning outcomes	competencies being formed is being formed (Appendix 2.1)
14.	Form of training	The field value must be obtained from the IS of the specified university.

15.	Language of instruction	The values should refer to the central reference
		book "Languages of Learning/teaching". By
		default, no value is selected.
16.	Volume of loans	full-time department - 240
		abbreviated form after college - 180
		The corresponding value for the training form
		should be displayed
17.	Academic degree awarded	Bachelor's degree + academic degree Bachelor of
		Natural Sciences in EP 6B05201 "Ecology"
18.	Availability of an appendix to the	Number KZ06LAA00017359 dated 11.11.2019
	license for the direction of training	
19.	Availability of EP accreditation	There is +
	Name of the accreditation body	Independent Kazakhstan Agency for Quality
		Assurance in Education
	Validity period of accreditation	16.01.2017 – 14.01.2022
20.	Information about disciplines	Information about UCdisciplines/CC GED, BD,
		PD (Appendix 2.2)
21.	Uniqueness of the program	The distinctive features of the EP are that the
		emphasis is given to environmental management

# 2. Qualification characteristics of the graduate of the educational program 6B05201 "Ecology"

# 2.1 Degree awarded: Bachelor of Natural Sciences in EP 6B05201 "Ecology"2.2

### List of specialist positions:

- organizational and managerial;
- production and technological;
- service and operational;
- experimental research;
- educational (pedagogical);
- project.

### 3. Content of the educational program

## 3.1 Curriculum of the educational program

	1	1	<u> </u>	1		1	Types	1								1
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				Labor inte	Insity		educat ional	Distr	Ibution	by seme	ster				T	
The							work									The
cycle of	Discip			Credits	akade m.	Form of	l/pr/ SIWT									result of tata
discipli	line	UC/C		KAZ/	Watc	contro	/SIW/									trainin
ne	code	C/RC	Name of the discipline	ECTS	h	1	PA	1	2	3	4	5	6	7	8	g
	SPKP		Sociology, Political Science,	MSPK Modi	ule of soci	o-political ex	knowledg 30/30/	e	1				T	Ī	т—	-
	SI KI		Cultural Studies, Psychology			CA	60/90/									
GED		RC		8	240		30	4	4							LR 1,
																LR 2
	UP		Educational practice	1		report			1							
BD		UC			30		L								<u> </u>	
GED	EBzh		Ecology and life safety	. SHM Socia	al and Hu	manitaria ex	n Module		1	1		-	-			
GED	Rel		Religious studies			ex	30/15/									
	MK		Interdisciplinary course				15/75/									
CED	CME	CC	"Mangilik El Values"	5	150	G	15	5							<u> </u>	LR 1,
GED	SIK		Modern history of Kazakhstan			Stat ex	30/15/ 15/75/									LR 1, LR 2
		RC		5	150		15	5								
GED	Fil		Philosophy			ex	30/15/									
		RC		5	150		15/75/ 15			5						
				3. MPCS N		physical		sports	5							
CED	FK	D.C.	Physical Culture	0	240	dif/		_		_	_					LR 1,
GED	1	RC		8	240 4 <b>GM G</b> 2	zach ыковой м	IOTVIL	2	2	2	2				<u> </u>	LR 2
GED	IYa		Foreign language		4. MIVI M	ех	0/90/3						1		Ī .	
		D.C.		10	200		0/150/	_	_							
GED	K(R)	RC	Kazakh (Russian) language	10	300	ex	30 0/90/3	5	5						<u> </u>	-
GED	Ya		Kazakii (Kussiaii) ialiguage			CX	0/30/3									LR 1,
		RC		10	300		30	5	5							LR 2
	MK POYa		Interdisciplinary course "Professionally oriented			ex	0/60/3 0/60/3									
BD	1014	UC	language"	6	180		0			3	3					
				<b>5.</b> l	NSM Nati		ce Module		7	,	,		,	7		
	EAE		Ecological aspects of natural science			ex	30/15/ 15/75/									
BD		UC	Science	5	150		15/75/		5							LR 4,
	Bio		Biology			ex	15/30/									LR 5
BD	MB	CC	Microbiology	5	150		15/75/ 15		5							
DD	1	cc	6. D	TMM Digit		ogies and		ical me					1	Į		ı
	ME		Mathematics in Economics			ex	30/15/									
BD	VM	CC	Higher Mathematics	5	150		15/75/ 15	5								
ВО	ИКТ	CC	Information and	3	130	ex	13	3							1	LR 3
	(ICT)		communication technologies				15/30/									
GED		RC	(Information and communication technologies)	5	150		15/75/ 15		5							
CLD	1	, RC	communication (comologics)			pioecologi	cal Module		ر	1		I	1	1		1
	EH		Environmental chemistry			ex	15/30/									
BD		UC		5	150		15/75/ 15				5					
עט	Geo	00	Geoecology	3	130	ex	15/30/	<del>                                     </del>	1		,	5	1	1	<del>                                     </del>	1
	1		6,				15/75/					1				
PD		UC	Foology of animals and also	5	150	2"	15		1			-			<u> </u>	LR 6, LR 7
	EZLD	1	Ecology of animals and plants			ex	30/15/ 15/75/									LK /
	EZhR				150	Ì	15			5						
BD		UC		5	130											
	EZhR EB	UC	Ecological biogeography	5	130	ex	30/15/									
		UC UC	Ecological biogeography	5	150	ex	30/15/ 15/75/ 15				5					
BD				5	150		15/75/ 15 nomic mo	dule			5					
BD	EB		Statistics	5	150		15/75/ 15 nomic mod 15/30/	dule			5					
BD BD	EB	UC		5 8. EEM	150 Ecologic	al and eco	15/75/ 15 nomic mod 15/30/ 15/75/	dule			5	5				IR 4
BD	EB		Statistics	5	150	al and eco	15/75/ 15 nomic mod 15/30/	dule			5					LR 4, LR5
BD BD	EB ST SS	UC	Statistics Social statistics	5 8. EEM	150 Ecologic	al and eco	15/75/ 15 nomic mod 15/30/ 15/75/ 15	dule			5	5 5				

	Min		Майнор	Litt		l	ts /Finance					5	5			LR 10,
BD	IVIIII	CC	Маинор	20	600	ex				5	5	3	3			LR 10,
	1			10. ELM	Environ	nental and	l Legal M	odule								
BD	PP	CC	Environmental management			ex										
	EDDW	4	law	_			30/15/									
	EPRK		Environmental law of the Republic of Kazakhstan	5	150		15/75/ 15			5						
BD	GOS	CC	Environmental hygiene	J	130	ex	30/15/			3						_
DD	GE	1 00	Global ecology			CA .	15/75/									
				5	150		15			5						
BD	EK	CC	Ecology of Kazakhstan			ex	30/15/					5				LR 1,
	RE		Regional ecology	5	150		15/75/ 15									LR 2
BD	BE	CC	Biogeochemistry and	3	130	ex	13								1	LR 4, LR 5
DD	DL.		ecotoxicology			CA .										LIC 3
	TRSN		Technology for the				15/30/									
	D		development of standards and	_	150		15/75/				_					
BD	PP		regulatory documentation  Production practice	5	150		15				5					-
БD	FF	HC	Froduction practice	_	150						_					
		UC	1	5	150 FM Fnv	report ironmenta	l Modulo				5					
BD	Posh	CC	Soil science	11.	ENI ENV	ex	15/30/		I				5			
DD	Zem	1 00	Land management			CA .	15/75/									
			_	5	150		15									
BD	ER	CC	Environmental resource			ex								5		
	PEB	-	Studies Origin and evolution of the	_			30/15/ 15/75/									
	PED		biosphere	5	150		15/75/									
BD	Gid	CC	Hydrology (in the state		100	ex	-10					5			1	
			language)				30/15/									
	VRK		Water resources of	_			15/75/									LR 6,
	EM	HC	Kazakhstan	5	150		15						-			LR 7
	EM	UC	Environmental management			ex	30/15/ 15/75/						5			
PD				5	150		15/75/									
	EM	UC	Environmental monitoring			ex	15/30/						5			
				_	4.50		15/75/									
PD	EA		Environmental audit	5	150	277	15							5		_
	EA UOS	-	Teaching about the	1		ex	30/15/ 15/75/							3		
BD	003	CC	environment	5	150		15/75/									
PD	PP	UC	Production practice	5	150	report							5			
				12. REM R	egulatory	and Envi	onmental	Modul	e							
PD	ORE	CC	Fundamentals of radiation	_		ex								5		
	OGE	_	ecology	5			30/15/									
	OSE		Fundamentals of system ecology		150		15/75/ 15									
PD	OSOS	CC	Environmental assessment		130	ex	15/30/							5		
	OPR													1		
			Assessment of natural				15/75/									
	0110		Assessment of natural resources	5	150		15/75/ 15									
PD	PE	CC	resources Industrial ecology	5	150	ex	15 30/15/							5		
PD		CC	resources			ex	15 30/15/ 15/75/							5		
	PE OPR		resources Industrial ecology Protection of natural resources	5	150		15 30/15/									_
PD PD	PE	CC	resources Industrial ecology			ex ex	15 30/15/ 15/75/ 15							5		LR 8,
	PE OPR OENE		resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise	5	150		15 30/15/ 15/75/ 15 15/30/ 15/75/									LR 8, LR 9
	PE OPR OENE	СС	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety			ex	15 30/15/ 15/75/ 15 15/30/									
	PE OPR OENE EB STZB		resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green	5	150		15 30/15/ 15/75/ 15 15/30/ 15/75/						5			
	PE OPR OENE EB STZB (MTG	СС	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety	5	150	ex	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5			
	PE OPR OENE EB STZB	СС	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green	5	150	ex	15 30/15/ 15/75/ 15 15/30/ 15/75/						5			
PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business  Economics of environmental management	5	150	ex	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5			
PD	PE OPR OENE EB STZB (MTG B)	СС	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business Economics of environmental	5	150	ex	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5		10	
PD BD PD	PE OPR OENE  EB STZB (MTG B) EP PP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business Economics of environmental management Production practice	5	150	ex	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5			
PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business  Economics of environmental management	5 5 10	150 150	ex ex	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5		10	
PD BD PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business Economics of environmental management Production practice	5 5 10 5	150 150	ex ex report	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15						5			
PD  BD  PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business Economics of environmental management Production practice	5 5 10 5 228	150 150 150 300 150	ex ex report protection	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15 15/30/ 15/75/ 15						5			
PD BD PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business Economics of environmental management Production practice	5 5 10 5 228	150 150 150 300 150	ex ex report protection	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15	e certifi	cation				5		5	
PD  BD  PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business  Economics of environmental management Production practice  Pre-graduate practice	5 5 10 5 228	150 150 150 300 150	ex ex report protection	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15 15/30/ 15/75/ 15	e certifi	cation				5			
PD BD PD	PE OPR OENE  EB STZB (MTG B) EP	CC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business  Economics of environmental management Production practice  Pre-graduate practice  Writing and defending a thesis	5 5 10 5 228	150 150 150 300 150	ex  report  protection	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15 15/30/ 15/75/ 15	e certifi	cation				5		5	
BD PD	PE OPR OENE  EB STZB (MTG B) EP PP PreP	CC CC UC	resources Industrial ecology Protection of natural resources Fundamentals of environmental regulation and expertise Environmental safety Modern technologies of green business  Economics of environmental management Production practice  Pre-graduate practice	5 5 10 5 228	150 150 150 300 150	ex ex report protection	15 30/15/ 15/75/ 15 15/30/ 15/75/ 15 15/30/ 15/75/ 15	e certifi	cation			30	5		5	

3.2 Information about disciplines

3.0	3.2 Information	3.T 1	ъ 1	
№	Name of the discipline	Brief description of the discipline (30-50 words)	Number of	Formed competencies
		Цикл общеобразовательных дисциплин	credits	(codes)
		Обязательный компонент		
1	Module of socio-political	Sociology studies society, its constituent systems	8	CC 1.
	knowledge (Sociology,	(institutions, processes) and the patterns of their		
	Political Science, Cultural	functioning and development.		
	Studies, Psychology)	Political science studies the theory of political power		
		and political systems, political relations and		
		processes, world politics and international relations		
		Culturology studies the patterns and factors of		
		sociocultural development of society, theoretical and		
		methodological problems of culturology and the		
		history of world culture		
		Psychology studies the main psychological processes,		
		states, properties, the inner world of a person in the		
	16.1.11.4	process of reflecting this world.	~	661
2	Modern history of	The discipline studies the main stages of the	5	CC1
	Kazakhstan	formation of modern Kazakhstan: the socio-economic situation in Kazakhstan at the beginning of the		
		twentieth century, the historical origins of the		
		formation of Soviet Kazakhstan, the consequences of		
		Soviet reforms in Kazakhstan, state strategies and		
		socio-economic development of Independent		
		Kazakhstan, the Kazakh model of economic		
		development, democratic and spiritual renewal of		
		Independent Kazakhstan.		
3	Philosophy	The discipline studies the main philosophical	5	CC1
		directions such as: Philosophy of the Ancient World,		
		Ancient East, ancient philosophy. Philosophy of the		
		Middle Ages of the East and West. Philosophy of the		
		Renaissance. Philosophy of the New Age. Russian		
		philosophy. Philosophy of the late XX- early XXI		
		century. Kazakh philosophy. He also studies		
		ontology and epistemology, social philosophy and		
	Dia 1 Cale	anthropology.	0	001
4	Physical Culture	Physical culture is a set of values, norms and	8	CC1
		knowledge created and used by society for the purpose of physical and intellectual development of		
		human abilities, improvement of his motor activity		
		and formation of a healthy lifestyle, social adaptation		
		through physical education, physical training and		
		physical development.		
5	Kazakh (Russian)	The discipline studies lexical and grammatical topics	10	CC1
	language	aimed at the development of all types of speech		
		activity and vocabulary work, the development of		
		everyday conversation in various situations and the		
		terminology of the Kazakh language.		
6	Foreign language	The discipline studies lexical and grammatical topics	10	CC1
		aimed at the development of all types of speech		
		activity (listening, speaking, reading, writing) and		
		vocabulary work, allowing the use of a foreign		
		language in interpersonal communication and in		
7	T., C., 4: A 1	professional activities.		
7	Information And	The discipline studies the role of information and	<u>-</u>	000
	Communication	communication technologies in key sectors of society	5	CC2
	Technologies	development, ICT standards, computer systems,		
		computer system architecture, software and user interface, database systems and data analysis, cloud		

8	Ecology and life safety	and mobile technologies, multimedia technologies, Smart technologies, E-technologies, e-business, e-learning, e-government.  Cycle of general education disciplines  Component of choice  The discipline studies the interactions of living organisms with the environment, the laws of the development of the biosphere, the functioning of ecological systems and the biosphere as a whole, as well as methods of first aid and human protection in	5	CC1
9	Religious studies	the technosphere from negative impacts of anthropogenic and natural origin  The discipline studies the essence, history of the origin, development, role and place of the religions of Judaism, Taoism, Confucianism, Buddhism, Christianity, Catholicism, Orthodoxy, Protestantism, Islam in modern society, the main religious trends, the culture of interfaith communication, tolerance.	5	CC1
10	Price Mangilik El	The discipline studies the essence of national identity, national upbringing, ethnic socialization and identification, the culture of interethnic communication to preserve the stability, independence, security of our state, in the context of the National Idea "Mangilik el".	5	CC1
		Cycle of basic disciplines		
11	Educational practice	University component  Familiarization with educational programs in the specialty being trained with the functions and tasks of future professional activity	1	CC1
12	Interdisciplinary course "Professionally oriented language"	The discipline studies vocabulary, grammatical structure, characteristics of the basic categorical and conceptual apparatus used in evaluation activities, the main types of communicative activities in the state language and a foreign language, taking into account the specifics of professional activity.  After studying this discipline, the student should know:  1. functional features of oral and written professionally-oriented texts, understand oral speech within professional topics; participate in the discussion of topics related to the specialty; independently prepare and make oral messages on professional topics; extract the necessary information from English-language sources created in various sign systems, select information sources and critically evaluate information necessary to perform communicative tasks in professional activities.	5	CC 1.
13	Ecological aspects of natural science	The discipline studies theoretical and methodological problems of ecological aspects of biology, chemistry and physics and forms students' basic ecological thinking, providing a systematic approach to the study of biological, chemical, physical ecology	5	CC 3.
14	Environmental chemistry	The discipline studies the chemical aspects of the influence of human activity on natural objects, on the processes occurring in the air, water and soil when pollutants enter and the possibility of preventing environmental pollution; studies the transformation of chemical compounds in the environment, predicts	5	CC 3.

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		the possible consequences of such changes, forms		
		decision-making skills taking into account environmental requirements		
15	Ecology of animals and plants	The discipline studies the relationship of animals and plants with the environment, the role of plant and animal organisms in the natural balance, the characteristic behavior of individual species depending on environmental conditions and patterns	5	CC 3.
		of adaptation of organisms. Forms knowledge of the main characteristics of the plant and animal world, patterns of interspecific and intra-species relationships of living organisms in nature and their role in the ecosystem.		
16	Ecological biogeography	Studies the patterns of geographical distribution of animals, plants and microorganisms and the dynamics of organisms and their communities, populations, biota, depending on the conditions of the geographical environment. Forms students' general ideas about the basics of the evolution of flora and fauna, biological diversity and its protection in various geographical regions and the main patterns of biota formation.	5	CC 3.
17	Production practice	They study the conditions of production, the accounting procedure for the work performed, the structure and management system of the production organization, its material and technical base.	5	CC1, CC3
18	Minor "Business Informatics" /	Electronic business, Computer design technologies, IT solutions and industry, Information systems security/	20	CC6
	Minor "Legal foundations of business"/	Business law of the Republic of Kazakhstan, Civil law of the Republic of Kazakhstan, Legal and customs tariff regulation of foreign economic activity, Labor law of the Republic of Kazakhstan		
	Minor "Basic Legal 1"/	Constitutional Law, Administrative Law of the Republic of Kazakhstan, Labor law, Public Service and Management./		
	Minor "Basic Legal 2"/	Constitutional law, Administrative Law of the Republic of Kazakhstan, Labor law, Environmental law		
	Minor "Economic fundamentals of entrepreneurship"	Economic Theory, Management, Entrepreneurship, Firm Economics		
	Minor "Entrepreneurial projects"/	Entrepreneurship, Business planning, Risk management, Entrepreneurial projects: management and implementation		
	Minor "Finance"	Finance, Taxes and taxation, Banking, Organization of interaction between banks and enterprises		
		Cycle of basic disciplines Component of choice		
19	Biology	Studies physiological processes in plant organisms, in	5	CC 3
<b>1</b> /	<i>Biology</i>	humans and animals, and the influence of environmental factors on these processes., introduces students to the patterns of inheritance of traits, the structural and functional organization of genetic material and its variability.	3	
20	Microbiology	Studies the main morphological, physiological and ecological characteristics of microorganisms and their classifications, as well as the mechanisms of action of the microbial community in the global cycles of the biosphere and the influence of	5	CC 3

				,
21	Mathematics in Economics	environmental factors on the vital activity of microorganisms. Introduces students to the laws of interaction of components of the biosphere with microorganisms in the development of modern purification systems and low-waste technologies in environmental management.  The discipline studies the following sections of	5	CC 2
21	iviationates in Economics	mathematics: Linear Algebra. Vector algebra. Analytical geometry. Elements of mathematical analysis. Differential calculus of functions of one variable. Integral calculus of functions of one variable. Functions of many variables. Ordinary differential equations. Numerical series. Power series.	J	CC 2
22	Higher Mathematics	Mastering the mathematical apparatus, helps to model, analyze and solve economic problems with the application, if necessary, using computer technology; mastering mathematical methods by students, which make it possible to study and predict processes and phenomena in the field of future activities of students as specialists.	5	CC 2
23	Statistics	The discipline studies the essence of the statistical method and the features of its application to the study of socio-economic phenomena and processes. The purpose and methods of constructing the main statistical indicators that describe the state and development of the economy, national wealth, reproduction of the population, the standard of living of the population are revealed. Forms the ability to apply a system of statistical indicators when analyzing the information received.	5	CC 3
24	Social statistics	The discipline studies methods of data collection, processing of digital material, analysis of the received information and application of the acquired knowledge in practice	5	CC 3
25	Право природопользования	The discipline studies the main legal institutions in the field of environmental management: environmental rights of citizens, natural resources and environmental management law, ownership of environmental management, legal responsibility for environmental offenses, economic mechanism of environmental protection and environmental management, environmental safety; state regulation of land relations, the legal regime of lands in the Republic of Kazakhstan, which will allow to form knowledge in the field of legal regulation of environmental protection and practice of its application.	5	CC 1, 3.
26	Environmental law of the Republic of Kazakhstan	Studies the sphere of legal regulation of the ecological and legal regime of use, reproduction and protection of individual natural objects, natural and territorial complexes, international legal protection of the natural environment	5	CC 1, 3.
27	Environmental hygiene	Studies the general laws of the relationship of the human body with environmental factors, principles	5	CC 3.

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28	Global ecology	and approaches to improving living conditions, protecting and strengthening the health of the population in continuously changing environmental conditions. Forms students' ability to give a sanitary and hygienic assessment of environmental factors and to carry out sanitary and hygienic measures to preserve and strengthen the health of the population.  Studies the problems of global ecology, develops the ability to solve problems, foster a responsible attitude	5	CC 3.
		to nature.		
29	Ecology of Kazakhstan	Ecology of Kazakhstan studies the peculiarities of Kazakhstan's ecosystems, considers the negative impact of anthropogenic impact on the emergence of regional and local environmental problems. Features of the ecology of the atmosphere, hydrosphere, soil cover, flora and fauna, radioecological situation of the Republic of Kazakhstan.	5	CC 3.
30	Regional ecology	The discipline studies on the basis of acquired ecological knowledge the natural and climatic conditions and the diversity of ecosystems in the region. Forms the ability to assess the consequences of human influence on the natural environment of the region and make optimal decisions that exclude the deterioration of the environmental situation.	5	CC 4.
31	Biogeochemistry and ecotoxicology	Studies the patterns of distribution and movement of chemical elements and toxicants in the biosphere, shows quantitative and qualitative characteristics of biogeochemical elements. Forms knowledge about the laws of functioning and development of processes occurring in the natural environment and the processes of migration of chemical elements between living organisms and the environment.	5	CC 4.
32	Technology for the development of standards and regulatory documentation	Studies uniform norms, rules and requirements for products and spheres of activity of members of the society, determines the relationship between the requirements of production and the conditions of its operation, achieving universal savings, accelerating scientific and technological progress, increasing labor productivity, improving product quality. Develops the ability to apply theoretical knowledge in practice when developing standards and other regulatory documents.	5	CC 4.
33	Soil science	Studies the origin and development of the soil and its main fertility properties, examines the features of the structure, composition and properties of all types of soils on the globe and their spatial distribution, measures for their protection and rational use. Forms knowledge of the laws of functioning and development of natural and natural systems, their interrelation, the idea of soil-forming rocks.	5	CC 3.
34	Land management	Studies the system of measures for the implementation of land legislation, the organization of full and rational use and protection of land, the description of the location of production, considers the establishment on the ground of the boundaries of land use objects, the organization of the use of land for agricultural production. Forms knowledge on the basic laws of the functioning of land registration; as well as with the types and forms of land	5	CC 3.

35	Environmental resource	management.  The discipline studies various types of natural, socio-	5	CC 3.
,,	studies	economic resources and their classification. Forms knowledge about the main provisions of the strategy and tactics of assessing the compliance of natural resources with the current level of consumption and rational use, taking into account environmental consequences.	J	CC 3.
36	Origin and evolution of the biosphere	The discipline studies the biosphere as an integral part of the geographical envelope of the Earth and the global role of living matter in the evolution of the biosphere and its functions. Forms knowledge about the laws and driving force of the evolution of the biosphere, the origin of life on Earth and the stages of development of the biosphere as the scientific foundation of modern ecology.	5	CC 3.
37	Гидрология	The discipline studies water bodies and water resources. Provides an assessment of the current state of water resources, forecast and justification of their rational use, forms knowledge about the impact of adverse changes in the amount of water and its quality in river basins and reservoirs, under the influence of anthropogenic influences, taking into account natural changes in water systems.	5	CC 4.
38	Water resources of Kazakhstan	The discipline studies methods of water resources management in the prevailing trends of changes in the quantity and quality of water in river basins and reservoirs. Forms knowledge of the mechanism of the use of water resources of the Republic of Kazakhstan in cooperation with neighboring countries on the basis of their fair and reasonable use.	5	CC 4.
39	Environmental audit	Studies the activity of an economic entity in determining its environmental policy, in forming priorities for the implementation of measures, including preventive ones, aimed at compliance with the established requirements of environmental legislation.	5	CC 5.
40	Teaching about the environment	The discipline studies the environment and conditions of human existence and its relationship with the environment, reveals the features of a complex multicomponent system "man-environment" Forms knowledge about the objects of the human environment, the components of biotic, abiotic and social environments and their interaction.	55	CC 3.
41	Modern tichnologies of «green business»	Studies modern technologies of economic and ecological direction at different levels of management and management. Forms knowledge on managing the process of greening the economy of business entities.	5	CC 5.
42	Economics of environmental management	Studies methods of rational nature management, economic support of environmental protection measures and state regulation of nature management.  * Forms knowledge of the relationship between the natural resource base and the socio-economic development of society, the search for management methods that ensure the maintenance of natural balance	5	CC 5.

		Cycle of profile disciplines		
43	Environmental management	University component/Component of choice  The discipline studies information, legal and methodological foundations for the development of plans and implementation of environmental management systems, rational use of natural resources, promotion of resource- and energy-saving environmental technologies. Develops practical skills and application of standards and regulatory documents in professional activity	5	CC 5
44	Geoecology	The discipline studies geographical systems in order to develop scientific and practical recommendations for the rational use of natural resources and ecological stabilization of the human environment. Forms knowledge about the functioning of the ecosphere as an interconnected system of geospheres in the process of its integration with society, allowing them to find strategic solutions to interrelated global problems of a crisis nature.	5	CC4
45	Ecological and economic analysis	Ecological and economic analysis studies the processes of interaction between human life and the state of the environment under the influence of objective and subjective factors reflected through a system of ecological and economic indicators, causal relationships are established along the chain:  "interaction - change - consequences". As a result of studying the discipline, individual trends and ecological and economic patterns are identified, systems of forms of property realization are developed, specific ways of resolving ecological and economic contradictions are determined.	5	CC3
46	Environmental monitoring	Studies priority controlled pollutants of the natural environment; means of monitoring implementation; methods of monitoring environmental parameters depending on physical and geographical conditions and emissions of pollutants; forms students' ability to consider at a deeper research level the main approaches in the field of environmental control, including those affected by anthropogenic load	5	CC 5
47	Fundamentals of radiation ecology	Studies the natural and anthropogenic radiation background of the Earth, the mechanism of ionizing radiation effects on living organisms, sources and ways of radionuclides entering the biosphere. Forms fundamental knowledge about the essence of radioecology, its tasks, the effects of radioactive radiation on all living organisms, as well as about environmental activities and ways to overcome modern radioecological problems.	5	CC 5.
48	Fundamentals of system ecology	Studies environmental laws based on a systematic approach and analysis to solve environmental problems, gives a unified description of all the main components of ecosystems, describes their interrelationships with each other and with the external environment. Forms students' knowledge by using a systematic approach to analyze the natural environment as a complex, differentiated system, the components of which are in dynamic equilibrium.	5	CC 5.

49	Environmental assessment	Studies the basic laws of sustainable development of nature and society, modern principles and methods of environmental assessment. Forms knowledge about the principles and systems of assessment and normalization of the state of ecosystems and their components, assessment of the impact of economic activity on the environment and human health.	5	CC 5.
50	Assessment of natural resources	Studies theoretical and practical skills of approaches and methods for assessing natural resources and the effectiveness of their use at the current stage of the country's development. Forms students' system of theoretical and practical foundations for the assessment of natural resources based on established methodologies and methods of assessment.	5	CC 5.
51	Industrial ecology Industrial ecology	Studies the influence of industry, both individual enterprises and the technosphere and the environment, on the biosphere, its evolution into the technosphere and further into the noosphere in the least painful way for humans. Interaction of living beings with the environment in conditions of anthropogenic impact. Forms knowledge of interrelations in the "environment - enterprise" system, ways and means of ensuring the conditions of survival of nature and man in the conditions of functioning of the natural-industrial complex.	5	CC 5.
52	Protection of natural resources	The protection of natural resources studies the main environmental problems, the state of natural resources and issues of their rational use, the nature of the impact of production activities and other anthropogenic factors on the natural environment, a system of measures that ensures the possibility of nature preserving resource-reproducing and environment-reproducing functions, as well as the conservation of non-renewable natural resources.	5	CC 5.
53	Fundamentals of environmental regulation and expertise	Studies the norms and rules of regulatory documentation on design, environmental protection, rational use of natural resources, environmental safety, as well as with environmental expertise, audit and EIA. Develops theoretical and practical skills in environmental quality control using norms and rules, regulatory documentation, environmental quality standards, tools for instrumental control.	5	CC 5.
54	Environmental safety of Kazakhstan	Studies the mechanism of formation of an effective state environmental policy in Kazakhstan and assessment of the current state of environmental safety, problems and contradictions in the environmental sphere and the main conditions for their solution in the light of the implementation of long-term strategic priorities in the Republic of Kazakhstan. Forms knowledge on ensuring the protection of natural systems, vital interests of society and individual rights from threats arising as a result of anthropogenic and natural impacts on the environment.	5	CC 5.
55	Production practice	studies the conditions of production, the accounting procedure for the work performed, the structure and management system of the production organization,	5	CC 4

		its material and technical base.		
56	Production practice	Consolidation of key competencies, acquisition of practical skills and experience of professional activity in the trained specialty	10	CC 5
57	Pre-graduate practice	Collect factual material about the production activities of an enterprise, institution, organization and use it when writing a thesis	5	CC 5

## 4 Competencies and learning outcomes of the educational program

4.1 List of competencies and learning outcomes

	Content of competence	The	The content of the learning result according to the educational
The cipher of the compute	Coment of competence	cipher is the result	program
r		learning	
CC 1.	The ability of a person to socio- cultural and physical development based on the principles of	LR 1.	Demonstrate personal and professional competitiveness, civic position, physical and environmental culture, culture of academic integrity, critical thinking, creativity and willingness to collaborate
	multiculturalism, multilingualism and ecological thinking  Willingness to use digital	LR 2.	To carry out interpersonal, intercultural and professional communications using grammatical knowledge and speech means and academic presentation skills in oral and written forms in the state, Russian and foreign languages, to analyze information in accordance with the communication situation
CC 2.	Willingness to use digital technologies for the development of production, business, science, social sphere	LR 3.	Use various types of ICT: Internet resources, cloud and mobile services for the search, storage, processing, protection and dissemination of information
CC 3.	The ability to analyze the objects of economic activity from the point of view of the ecological and economic state, to develop recommendations and make ecoforecasts.	LR 4.	Be able to generalize, analyze, perceive information, set goals and choose ways to achieve it: can formulate arguments and solve problems in the field of ecology, collect, analyze and summarize environmental information in the form of environmental documents, calculate permissible environmental loads on ecosystems, carry out procedures for the examination of economic projects, make recommendations and develop an environmental forecast
		LR 5.	Possess the methods of conducting technical and economic analysis, is able to substantiate the decisions taken and implemented in the field of ecology: he is able to apply the results in practice, develop arguments and solve problems of an ecological and economic nature, use the acquired knowledge in professional activities
CC 4.	The ability to apply theoretical knowledge in practical activities for the provision of services in the field of environmental resource	LR 6.	Be able to critically rethink the accumulated experience, change the profile of your professional activity if necessary, be aware of the social significance of your future profession, have high motivation to perform professional activities
	efficiency	LR 7.	Know the classification, layout, methods, principles, concepts in the field of sustainable development and be able to analyze the efficiency of the use of natural resources, fixed assets of industrial value and summarize environmental research materials
CC 5.	The ability to make informed and competent decisions in the field of ecological modeling and forecasting of the state of natural and anthropogenic ecosystems	LR 8.	Possess knowledge about the sources, causes and consequences of environmental pollution, ecological, economic and other methods of assessing the ecological and resource potential of natural and anthropogenic ecosystems, measures to prevent environmental destabilization of the environment
		LR 9.	Possess the skills of environmental management, methods of system analysis, environmental modeling and forecasting of the state of natural and anthropogenic ecosystems

CC 6.	Minor "Business Informatics" / Uses new methods and technologies of computer design, design and data analysis to solve professional tasks based on Internet technologies, ensuring information security of systems.	LR 10	Develops a business plan for the introduction of electronic business, integrates various IT solutions to I tasks in the conditions of digital Kazakhstan, uses computer graphics skills, assesses the level of security and protects information resources.
	Minor "Legal foundations of business"/ The ability to carry out professional activities on the basis of a developed legal awareness, legal thinking and legal culture, to make decisions and perform actions in the business and management spheres in strict accordance with the law	LR 10	Knows the legal acts regulating entrepreneurial activity, both within Kazakhstan and with the participation of foreign partners, demonstrates the ability to comment on their content and use for the organization of various business entities, the development of texts of business contracts, the ability to protect their rights by legal means, is capable of leading activities in strict accordance with the law
	Minor "Basic Legal 1"/ The ability to carry out professional activities on the basis of developed legal awareness, legal thinking and legal culture, to make decisions and perform actions in the management sphere in strict accordance with the law	LR 10	Understanding of the essence of fundamental rights and obligations by legal entities, measures of responsibility, requirements of laws, the meaning of legally significant documents and legal actions, the ability to protect their rights by legal means, the ability to comment on the content of a legal act and accurately apply a legal act in professional activity
	Minor "Basic Legal 2"/ The ability to carry out professional activities on the basis of developed legal awareness, legal thinking and legal culture, to make decisions and perform actions in the professional sphere in strict accordance with the law	LR 10	Understanding of the essence of fundamental rights and obligations by legal entities, measures of responsibility, requirements of laws, the meaning of legally significant documents and legal actions, the ability to protect their rights by legal means, the ability to comment on the content of a legal act and accurately apply a legal act in professional activity
	Minor "Economic fundamentals of entrepreneurship"/ The ability to understand the essence of economic relations for the functioning of a successful	LR 10	Demonstrate an understanding of the nature of economic processes and use the knowledge gained to achieve effective results and make optimal decisions in their professional field
	business in the professional field	LR 11	Demonstrate the ability to create your own business in a professional field and develop the conditions for its successful functioning
	Minor "Entrepreneurial projects"/ The ability to understand the essence of economic relations for the functioning of a successful	LR 10	Demonstrate the ability to formulate a bank of entrepreneurial ideas, draw up a business plan, create an entrepreneurial structure and organize its activities.
	business in the professional field	LR 11	Demonstrate knowledge of risk classification, identify, analyze and manage risks in the process of project implementation and the functioning of the organization's business processes.
	Minor "Finance / The ability to understand the essence of financial relations, apply them for the successful implementation of their own business and interaction with other subjects of economic activity	LR 10	Demonstrate an understanding of the essence of finance, navigate the basic principles of the functioning of the tax and banking systems, apply the acquired skills for effective interaction with various subjects of the country's financial system

# 4.2 Matrix of correlation of learning outcomes according to the educational program as a whole with the competencies being formed

	LR 1	LR 2	LR 3	LR 4	LR 5	LR 6	LR 7	LR 8	LR 9	LR 10	LR 11
CC 1	+	+									
CC 2			+								
CC 3				+	+						
CC 4						+	+				
CC 5								+	+		
CC 6										+	+

4.3 Competence formation map

The cipher of competence	Discipline code	Name of disciplines forming competencies	RC/UC/ CC	Volume in loans	Number of hours	The form of evaluation of the achievement of the result
					Nur	The form of evaluation of the achieven of the result
	SPKP	Sociology, Political Science, Cultural Studies, Psychology	RC	8	240	exam (test)
	UP	Educational practice	UC	1	30	report
CC 1.	EBzh /Rel/ME	Ecology and life safety/Religious Studies/Mangilik El	CC	5	150	exam (test)
	SIK	Modern history of Kazakhstan	RC	5	150	GOS. ind.
	Fil	Philosophy	RC	5		(oral)
	FK	Physical Culture	RC	8	240	exam (test)
	IYa	Foreign language	RC	10	300	dif/Zach
	K(R)Ya	Kazakh (Russian) language	RC	10	300	exam (oral)
	MKPOYa	Interdisciplinary course "Professionally oriented language"	UC	6	180	exam (oral)
	ME	Mathematics in Economics	CC	5	150	exam (oral)
CC 2.	VM	Higher Mathematics	CC	5	150	exam (test)
	ИКТ (ІСТ)	Information and communication techologies	RC	5	150	exam (test)
	ST	Statistics	CC	5	150	exam (test)
	SS	Social statistics	CC	5	150	copy (letter)
	EEA	Ecological and economic analysis	UC	5	150	copy (letter)
	EAE	Ecological aspects of natural science	UC	5	150	copy (letter)
CC 3.	Bio	Biology	CC	5	150	exam (test)
	MB	Microbiology	CC	5	150	exam (test)
	PP	Production practice	UC	5	150	exam (test)
	EH	Environmental chemistry	UC	5	150	report
	Geo	Geoecology	UC	5	150	exam (test)
	EzhR	Ecology of animals and plants	UC	5	150	copy (letter)
	EB	Ecological biogeography	UC	5	150	exam (test)
	PP	Environmental management law	CC	5	150	copy (letter)
CC 4.	EPRK	Environmental law of the Republic of Kazakhstan	CC	5	150	exam (test)
	GOS	Environmental hygiene	CC	5	150	exam (test)
	GE	Global ecology	CC	5	150	exam (test)

	EK	Ecology of Kazakhstan	CC	5	150	exam (test)/K/p
	RE	Regional ecology	CC	5	150	exam (test)/K/p
	BE	Biogeochemistry and ecotoxicology	CC	5	150	exam (test)
	TRSND	Technology for the development of standards and regulatory documentation	CC	5	150	exam (test)
	Posh	Soil science	CC	5	150	copy (letter)
	Zem	Land management	CC	5	150	exam (test)
	ER	Environmental resource studies	CC	5	150	exam (test)
	PEB	Origin and evolution of the biosphere	CC	5	150	exam (test)
	Gid	Hydrology (in the state language)	CC	5	150	exam (test)
	VRK	Water resources of Kazakhstan	CC	5	150	exam (test)
	EM	Environmental management	UC	5	150	exam (test)
	EM	Environmental monitoring	UC	5	150	project
	EA	Environmental audit	CC	5	150	copy (letter)
	UOS	Teaching about the environment	CC	5	150	exam (test)
	PP	Production practice	UC	5	150	report
	ORE	Fundamentals of radiation ecology	CC	5	150	exam (test)
	OSE	Fundamentals of system ecology	CC	5	150	exam (test)
	OSOS	Environmental assessment	CC	5	150	exam (test)
	OPR	Assessment of natural resources	CC	5	150	exam (test)
	PE	Industrial ecology	CC	5	150	ind., (test)K/p
CC 5.	OPR	Protection of natural resources	CC	5	150	ekz, (test)k/r
	OENE	Fundamentals of environmental regulation and expertise	CC	5	150	ekz (letter)
	EB	Environmental safety	CC	5	150	ekz (test)
	STZB (MTGB)	Modern tichnologies of «green business»	CC	5	150	ekz (test)
	EP	Economics of environmental management	CC	5	150	ekz (test)
	PP	Production practice	UC	10	150	report
	PreP	Pre-graduate practice	UC	5	150	protection
CC 6	Min	Minor	CC	20	600	ekz(test)

## 4. The concept of the development of the educational program

3. Target indicators for the development of EP 6B05201 "Ecology"

Goal 1: Improving educational	Target indicator: functioning of the	•		In th	ne planned pe	eriod	
activities in accordance with the requirements of the external environment	university in accordance with the main parameters of the Bologna process	Units of measure ment.	Plan 2020- 2021	Plan 2021- 2022	Plan 2022- 2023	Plan 2023- 2024	Plan 2024- 2025
1	2	3	4	5	6	7	8
	high-quality	%	60	61	62	62	62

	academic						
	performance of						
	students (the						
	proportion of						
	students studying						
	at "good and						
	excellent")						
	the number of	human	_	_	_	_	_
	holders of grants	Hallian					
	from the rector,						
	social partners,						
	personal						
	-						
	scholarships	%	79	79	80	80	80
	for students,	/0	19	19	80	80	80
	undergraduates						
	who got a job in						
	their specialty in						
	the first year after						
	graduation		1	1	_	2	
	number of subjects	pieces	1	1	2	2	2
	taught in foreign languages						
Task 1.2	number of MOOCs	pieces	1	1	1	1	1
Creation and development	number of media	pieces	-	-	-	-	-
of information	courses developed	P.2005					
infrastructure	the number of	pieces	2	3	3	3	3
	developed electronic	•					
	textbooks with the						
	presence of an						
	author's certificate of						
	the Ministry of						
	Justice of the						
	Republic of Kazakhstan						
Task 1.3	percentage of full-	%	54	55	55,5	55,5	55,5
Professional development	time TEACHERS	70	31	33	33,3	33,3	33,3
of the TEACHING	with academic						
STAFF	degrees and titles						
	number of full-time	human	-	-	-	-	-
	PhD doctors						
	the number of	human	-	-	-	-	-
	teachers who						
	implement core						
	disciplines in foreign languages						
	number of teaching	human	_	_	_	_	_
	staff, holders of state	numan	_	_	-	_	_
	awards, prizes, grants						
	number of teaching	human	7	8	8	8	8
	staff who have passed						
	advanced training						
	number of teaching	human	1	1	1	1	1
	staff who have						
	completed						
	international						
	internships number of teaching	human	1	1	1	1	1
	staff participating in	numan	1	1	1	1	1
	academic mobility						
Task 1.4	the number of	human	1	1	1	1	1
Improving the qualitative	graduates of		-		_	-	=
composition of the	secondary schools,						
		1		Ī		1	
contingent of students	holders of the "Altyn						
contingent of students	Belgi" badge,						
contingent of students							

Colympiads   the number of graduates of KEU   who continued their studies in the master's degree   the number of applicants with a high level of the average score of the school certificate   for students who speak a foreign language at the intermediate level the number of practitioners involved intaining in priority areas of the SE FIIR RK   Task 1.5   throughout of the SE FIIR RK   the number of practitioners involved intending the number of practitioners involved intending the number of practitioners involved intending the number of practitioners involved in the number of memorandal concluded annually with leading enterprises and organizations number of operating branches of the department of education and science   Task 2.1   Task 3.1   Task 3.2   Task 3.3   Task 4.4   Task 4.4   Task 4.4   Task 4.4   Task 5.5   Task 5.5   Task 6.5   Task 6.		competitions and					1	1
the number of graduates of KEU who continued their studies in the master's degree the number of applicants with a high level of the average score of the school certificate for students who speak a foreign language at the intermediate level the intermediate level of the average score of the school certificate for students who speak a foreign language at the intermediate level intermediate level to the average score of the school certificate for students who speak a foreign language at the intermediate level to the school certificate for students at the intermediate level to the school certificate for students at the practice oriented training in priority areas of the SE FIIR RK and the school certificate for students at the practice bases of students at the practice bases of students at the practice bases to potential employers the number of openating enterprises and organizations number of openating branches of the deportment the share of the teaching staff of the department the share of the teaching staff of the department the share of the teaching staff of the department involved in the implementation of research intolics of resear						ļ ,	ļ ,	
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Introduction of modern forms of practice- oriented training in priority areas of the SE FIIR RK			human	2	3	3	3	3
score of the school certificate for students who speak a foreign language at the intermediate level intermed						l ,	,	
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zero impact factor						l ,	,	,
(Thomson Reuters,						l i	<b> </b>	<b> </b>
SCOPUS, RSCI)		SCOPUS, RSCI)				<u> </u>		
number of textbooks pieces 1		number of textbooks	pieces	1	-	-	-	-
published under the						l i	<b> </b>	<b> </b>
stamp of the Ministry		stamp of the Ministry				( <u> </u>	( ,	Į į

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	of Education and						
	Science of the						
	Republic of						
	Kazakhstan						
	number of inventions,	pieces	-	-	-	-	-
Task 2.2	patents, licenses the number of	niocas	1	1	1	1	1
Creation of a multi-	scientific topics	pieces	1	1	1	1	1
channel system for	carried out according						
financing scientific	to the results of						
research	budget competitions						
research	of research projects						
Task 2.3	number of members	human	35	36	37	37	37
Integration of scientific	of the student	naman	33	30	37	37	37
activity and educational	scientific society						
process	number of scientific	pieces	17	18	19	19	19
Francisco	publications of PhD	Picco	- 7				1,0
	students,						
	undergraduates and						
	doctoral students						
	the number of	pieces	1	1	1	1	1
	scientific and	•					
	innovative projects of						
	students,						
	undergraduates and						
	PhD students						
	the number of	pieces	3	3	4	4	4
	research papers of						
	students who have						
	received diplomas						
	and awards for						
	participation in						
	international						
	competitions,						
	conferences	•	4	4	4	4	4
	the number of research works of	pieces	4	4	4	4	4
	students who have						
	received diplomas						
	and awards for						
	participation in						
	republican						
	competitions						
	number of joint	pieces	9	10	10	10	10
	publications of	•					
	teaching staff and						
	students,						
	undergraduates, PhD						
	students						
Goal 3: Training	Target indicator:						
graduates with higher	achievement of						
education at the level of	international quality						
international	standards,						
requirements, increasing	harmonization of						
the authority of KEU	KEU curricula with						
among business	the curricula of the						
structures, students,	world's leading						
international partners	universities,						
	provision, implementation of						
	joint degree programs,						
	participation in						
	international research						
	activities,						
	development of						
	language training of						
	teachers, staff,						
	students						
		<u> </u>	L	l	1	·	

Task 3.2 Ensuring student mobility in accordance with the requirements of the Bologna Process	Number of students participating in academic mobility programs	human	2	2	3	3	3
Goal 6: Formation of active citizenship, social responsibility, a sense of patriotism, high moral and leadership qualities among young people	Target indicator: the proportion of young people taking an active part in the implementation of measures in the field of youth policy and patriotic education from the total number of young people						
Task 6.1 Implementation a set of measures for patriotic education and	percentage of students involved in public events of a patriotic nature	%	86	86	87	87	87
the formation of civic activity of young people	number of patriotic education events (curatorial hours, conferences, thematic lectures, etc.)	pieces	12	13	14	14	14
Task 6.2 Implementation of a set of measures for the formation of socially significant and individual qualities, personality traits	the proportion of young people participating in various forms of student self- government	%	100	100	100	100	100
	participation of students in construction and labor groups "Zhasyl el", etc.	human	18,5	19	19,5	19,5	19,5
	number of students- members of the Alliance of Students of Kazakhstan	human	3	4	4	4	4
Task 6.3 Implementation of a set of measures for the formation and development of a system of spiritual and moral knowledge and values	the proportion of young people participating in the public life of the university	%	56	58	59	59	59

## 5. Educational Program Approval Sheet

Position	Signature	Full name
Vice-Rector for Academic Affairs and New		Bub'baeva R.O.
Technologies, Candidate of Economic		
Sciences, Professor		
Director of the Department of Academic		Daniyarova M.T.
Development, Candidate of Economic		
Sciences, Professor		
Dean of the Faculty of Economics,		Gimranova G.I.
Management and Entrepreneurship,		
Candidate of Economic Sciences, Professor		
Director of the Strategic Planning		Mulikova S.A.
Department, Doctor of Pedagogical		
Sciences, Professor		

<sup>\*</sup> if the person is not an employee of KEUK, the signature is stamped