Non-commercial joint-stock company « Kazakh National Agrarian Research University »

«AGREED»

Head of the state institution "Kazselezaschita" of Chairman of the Board – Rector the Ministry of Emergency Situations of the Republic of Kazakhstan

«APPROVED»

Chairman of the Board – Rector A.Kurishbaev

2024

E.Sadyrbayev

2024

EDUCATIONAL PROGRAM

6B11201 - «Social safety and environmental protection»

Awarded degree:Bachelor in services in the educational program 6B11201 – «Social safety and environmental protection»

Approved at the meeting of the Department «Agricultural machinengineering» Protocol No. 6, « 12 » 0/ 2024	nery and mechanical
Head of the department House Zh. Zhumagulov	
Considered at meetings Academic committee of the Faculty technical» Protocol No 6, « 46 » 01 2024	of «Engineering -
Chairman of the AC of the faculty U. Ibishev	
Reviewed by the Educational Methodological Council of recommended to the Academic Council Protocol No 4, « 01» 02 2024	the University and
Chairman of the EMS of the University A. Abdy	rov
The educational program was approved at the meeting of the A KazNARU Protocol № 9, « Ol » 2024	Academic Council of
Developers: Dean of the Faculty	L. Aldibaeva
Dean of the Faculty Head of department	Zh. Zhumagulov
Senior lecturer	A.Dyussenbiyeva
Student	A.Niyazbayeva
Graduate of 2023	S. Andosov
Employers: Head of the state institution "Kazselezaschita" of the Ministry of Emergency Situations of the Republic of Kazakhstan	_E.Sadyrbayev
Agreed: Head of the Educational Program Design Office **Type of the Educational Program **Type of t	Zh. Kussainova

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Application area

Designed for the implementation of the training of bachelors in the educational program (6B11201 – Vital Security and Environment Protection) in the NJSC «Kazakh National Research Agrarian University»

Regulations

«On Education» The Law of the Republic of Kazakhstan dated 27 July, 2007 No. 319-III;

Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 №2;

Classifier of training programs for personnel with higher and post-graduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 13, 2018 No. 569;

Standard Rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 30, 2018 No. 595;

Rules of the organization of the educational process on credit technology of training. Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 12, 2018 No. 563;

Algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan No. 665 dated December 4, 2018;

Order No. 106 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated October 12, 2022. Rules for keeping the register of educational programs, implemented by the organizations of higher and (or) postgraduate education, as well as the grounds for inclusion in the register of educational programs and exclusion from it.

Professional standard. Appendix No. 72 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" dated 11.12.2018 No. 339

Educational program 6B11201 - SocialSafety and Environmental Protection "is supported by three professional standards:

Professional standard "Labor Protection". Appendix No. 26 to the order of the Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atemaken" dated 12/18/2019, No. 255.

Professional standard "Disaster recovery". Appendix No. 16 to the order of the Deputy Chairman of the Management Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atemeken" dated 12/27/2019, No. 2566.

Professional standard "Validation and verification of greenhouse gas emissions." Appendix No. 1 to the order of the Deputy Chairman of the Management Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atemeken" dated December 30, 2019 No. 270.

1 Passport of the educational program

1 Passport of	f the educational program
Code and classification of the field of education	6B11 Services
Code and classification of training areas	6B112 Hygiene and occupational safety
Code and name of the educational program	6B11201 – «Social safety and environmental protection»
Type of educational program	Active
The aim of the educational program	Training of in-demand specialists with relevant professional knowledge and practical skills at their levels, capable of making decisions to eliminate and prevent adverse situations.
ISCED level	6
NQR level	6
SQF level	6
Application number to the license on the	KZ89LAA00031870
direction of staff training	05.08.2021 y. №006
Accreditation of the EP Name of the accreditation agency Validity of accreditation	Certificate №2020KK0279 KAZSEE 23.12.2020 -22.12.2025 y.
Awarded academic degree	Bachelor in services in the educational program
	6B11201 – Social safety and environmental protection
Learning outcomes	Table 2
List of qualifications and positions	-safety and labor protection engineer
	-environmental Protection Engineer (ecologist) -expert on the analysis of factors of working conditions -head of safety and labor protection -the chief technical manager for safety and labor protection; -scientific researcher in research and design organizations in the field of occupational health and safety.
Field of professional activity	-organization of the service of industrial safety and labor protection of industrial enterprises, organizations and institutions; -monitoring the state of the environment, monitoring the harmful effects of emissions from technological processes of industrial enterprises and the agricultural sector on the environment; -organization of the civil protection service of industrial enterprises, institutions and organizations; -assessment of working conditions of workers in production facilities; -determining the level of potential hazard of industrial enterprises, technological processes and equipment for the development of a safety declaration: -monitoring the state of industrial safety and labor protection at industrial enterprises and agribusiness enterprisescontrol of stability of economic objects in case of emergency.
Sphere and object of professional activity	-technological processes of all industrial enterprises, regardless of type of ownership; Agribusiness enterprises, farms; -institutions and organizations with more than 50 employees;

	-Departments of the Emergency Committee of the Ministr of Internal Affairs of the Republic of Kazakhstan;
	Subdivisions of the Ministry of Labor and Social Protection of the Population of the Republic of
	Kazakhstan:
	-regional departments for emergency situations, ecolog
	and labor protection;
	-district departments of ecology, emergency, labo
	protection and social protection;
	-educational institutions of technical and vocational
	education (colleges, universities);
Functions of professional activity	-Scientific research organizations (research institutes).
anotions of professional activity	-identification of production processes and work with potentially dangerous and harmful working conditions -organizational and technical support for the developmen and implementation of OSHMS
	-ensuring efficiency and continuous improvement o
	-formation and accounting of harmful and dangerous production factors at workplaces
	-provision of optimal modes of work and rest Normalization of sanitary and hygienic working conditions
	-managing the provision of collective protective
	equipment (VHC) and personal protective equipment (PPE)
	-examination of the causes and circumstances o violations of the industrial health of workers
	-justification of payment of compensation to worker employed in adverse working conditions - organization o
	medical, labor and social rehabilitation of injured workers -organizational and technical support for the developmen and implementation of OSHMS
	-Management of sanitary and epidemiological welfard (SEB) of the enterprise.
	-Participation and assessment of the quality of professional staff selection and management of
	professionally important qualities of safe behavior (SEC of employees
	-organization and coordination of work on safety and
	labor protection in the structural divisions of the
	organization and the implementation of internal contro
	on labor safety and protection; -Training, enhancing and maintaining a high level o
	competency of employees in OSH
	-managing the organization of optimal working and
	resting conditions, the normalization of sanitary and
	hygienic working conditions
	-management of ensuring the safety of production
	processes, equipment, tools, industrial equipment buildings, structures and territories
	-management of factors of fire, industrial, energy and
	environmental safety
	-identification of factors and risk assessment
	-development and implementation of motivational

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	technologies for employee involvement in OSHMS -conducting engineering and technical measures aimed at preventing possible spills of oil and oil products and (or) reducing the risk of their consequences -implementation of organizational and technical measures to combat accidental spills of oil and oil products in the sea -operative and technical guidance for the preparation of rescue teams -organization and verification and validation of greenhouse gas emissions in relevant sectors of the economy
	-management of the verification and validation process
Types of professional activity	1. Estimated: -assessment of technical, environmental and economic efficiency in the implementation of measures to ensure safety, hygiene and labor protection in the workplace; -controlling the operation of environmental and labor protection equipment and rescue equipment, observing the norms, rules and standards of labor protection, emergency protection and environmental protection governing production processes and equipment, rescue work and equipment, eliminating the consequences of accidents, disasters and environmental disasters; 2. Constructive: -participation in the development of design documentation for ensuring safety, hygiene and labor protection at work, prevention and liquidation of natural and man-made emergencies; -development of technical documentation for metrology. standardization of control and measurement tools, their adjustment, verification and adjustment; -participation in the development and implementation of design and engineering documentation and programs in the field of safety in the technosphere and environment. 3. Information technology: - prevention and prevention of emergency situations in enterprises; - formation and organization of specialized monitoring, rescue, labor protection services, their material and technical base; - mitigating the consequences of natural and man-made
	emergencies, and eliminating their consequences; - setting goals and forming tasks for current work and for the future; -compiling descriptions of the research, data preparation and reporting, surveys and scientific publications.
To be competent	 to possess the idea of natural and man-made processes, causing violation of the requirements of technosphere safety, environmental protection and protection in emergency situations; Demonstrate fundamental knowledge of multifunctional human and human activity based on modern approaches to the requirements of occupational safety and security in the environment;

- be able to apply the essence and social and social significance of their specialty, the main problems causing the professional activity of the bachelor.
- be able to apply the main provisions of the Constitution of the Republic of Kazakhstan, legislative and regulatory and technical acts in the field of industrial safety, environmental protection and environmental management, protection in emergency situations;
- in monitoring the rules of the basics of labor protection, industrial sanitation and occupational health, industrial ecology and sustainability of economic facilities in emergency situations, as well as radiation, chemical, biological, fire safety:
- basic languages and basics of programming, typical software products focused on solving problems in the sphere of technospheric safety and habitat safety;
- professionally carry out their production and social activities, set a goal and formulate tasks for current work and for the future, cooperate with colleagues and plan the work of small teams;
- realize their potential to improve the educational level, scientific outlook, competence, qualifications, the acquisition of new knowledge and skills, improve the knowledge of Kazakh, Russian and foreign languages;
- use information technology tools and computer equipment for searching, collecting, storing, processing and using information products;
- in matters of legislative, regulatory and legal framework in the field of technospheric safety, safety in the environment;
- in the organization, conduct and control of activities in the field of technospheric safety and security in the environment:
- in matters of development and preparation of environmental and technical documentation, projects, programs, plans of enterprises, organizations;
- in the field of experimental research;
- in all aspects of professional activities related to industrial safety, environmental protection and protection in emergency situations.

2. Learning outcomes for LO

Codes	Learning outcomes
LO1	Memorize the basic foundations in the field of natural sciences, the structure and functions of
	legal, anti-corruption culture and academic honesty, environmental and economic culture,
	genres of academic writing.
LO2	Use in their activities the actions of economic laws, quote the rules of moral development based
	on the constitutional foundations of the state.
LO3	To be able to communicate reasonably and competently on a wide range of issues, when
	working in a team and in an international environment, communicate extremely
	communicatively, convincingly formulate one's position and focus on results.
LO4	Develop mathematical models, perform mathematical calculations and demonstrate
	mathematical knowledge and understanding in solving professional problems, integrate
	mathematical methods with information technology.
LO5	Explain the natural-scientific picture of the world through the unity of the basic concepts and
	laws of physics, chemistry, using the acquired knowledge and skills for the safe use of
1.06	substances and materials in everyday life, agriculture and industry.
LO6	Apply knowledge and understanding to address issues of safety and reliability of operation of
	machinery and equipment, evaluate machinery and process equipment in terms of susceptibility
LO7	to emergency situations.
LO7	Choose methods for identifying harmful and dangerous production factors and ways to protect
LO8	workers from them, predict phenomena that are harmful to human health and the environment. Apply the methodological basis for the selection of personnel on professional suitability and
LOG	training in safe working methods, verify the knowledge of personnel on safety issues and the
	ability to develop safety instructions and rules.
LO 9	Plan the creation in the team of the psychology of safe thinking and a healthy moral and
	psychological climate using knowledge of the issues of social protection of workers.
LO10	Apply legal, organizational, technical and economic measures to improve working conditions,
	to solve educational, practical and professional problems and assess the state of jobs by
	managing the certification of production facilities for working conditions.
LO11	To teach the basics of radiation, chemical and biological, electrical and fire safety, identification
	of hazardous and harmful industrial factors, their measurement and methods of protection.
LO12	Monitor the state of parameters of the production and environment, formulate economically
14. 14	justified measures to improve working conditions, calculate damage from accidents,
	occupational diseases and industrial accidents.
LO13	Conduct experiments using modern instruments and equipment in the field of technosphere
	safety and environmental safety, necessary for declaring the safety of potentially dangerous
	objects.
LO14	Maintain the ability of physical and spiritual self-improvement, professional growth and
	professional mobility, confirm the desire to achieve new knowledge in the chosen specialty.

3. Content of the educational program

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Молульдің шифрі /Шифр молуля/ Module code	Наименование модуля/ Module name	Пэнніц цикль /Дикл дисциплинь/ Discipline cycle	Паннің компонент/Компонент дисциплины/ Discipline component	Паниің коды / Код дисциплины/ Code of subject	Наименование дисциплины/ Subject name	Академиялық кредиттер /Академические кредиты/ Academic credits	Окудың академиялық мерзімдегі/ Академический период изучения/ Academic study period	Емтихандар/Экзамены/ Exams	Дифференшалды сынак/ Дифференшрованный зачет/ Differentiated test	Курстык жұмыс/жоба/ Курсовая работа/проект/ Тегт рарег/project	Барлығы/ Всего/ Total	Дарістер/Лекши/Lectures	.Лабораториялык/Лабораторные/ Laboratory trainings	тэжірибелік/Практические/ Practice	Студиялык сағаты/Студийные занятия/ Studio lessons	Практика/ Practice	COOM /CPOII/ IWSF	СӨЖ /CPO/ IWS	15	15	15	15	15	15	15	15
	T	DICET!) (IC/)	SHT/	TII	3	Калпы мод	ульдер	/Общие мо	дули/Gener	al modules															
1		ЖБП/ OOД/ GER	MK/ OK/ CS	KRL/ FL 1102	Шетел тілі/ Иностранный язык/ Foreign language	5	1	1			5/150			45			30	75	5.0							
2		ЖБП/ ООД/ GER	MK/ OK/ CS	KOT/ KRYa/ KRL 1103	Қазақ (Орыс) тілі/ Казахский (Русский) язык/ Kazakh (Russian) language	5	1	1			5/150			45			30	75	5.0							
3	Гуманитарлық және тілдік/ Гуманитарный и языковой/	жбп/ ООД/ GER	MK/ OK/ CS	KTM/ IKG/ HOKS 1101	Казақстан тарихы (ME)/ История Казахстана (ГЭ)/ History of Kazakhstan (SE)	5	1	1			5/150	15		30			30	75	5.0							
4	Humanities and Language	ЖБП/ ООД/ GER	MK/ OK/ CS	SHT/ KRL/ FL 1110	Шетел тілі/ Иностранный язык/ Foreign language	5	2	2			5/150			45			30	75		5.0						
5		жбП/ ООД/ GER	MK/ OK/ CS	KOT/ KRYa/ KRL 1109	Қазақ (Орыс) тілі/ Казахский (Русский) язык/ Kazakh (Russian) language	5	2	2			5/150			45			30	75		5.0						
6		ЖБП/ ООД/ GER	MK/ OK/ CS	Fil/ Phi 2106	Философия/ Philosophy	5	3	3			5/150	15		30			30	75			5.0					
7	Әлеуметтік- саясаттану білім және салауатты өмір	ЖБП/ ООД/ GER	MK/ OK/ CS	DSH/ FK/ PC 1104	Дене шынықтыру/ Физическая культура/ Physical culture	2	1	1			2/60			30			30		2.0							

8	салты модулі/ Модуль социально- политических знаний и здоровый образ жизни/ The module of socio- political knowledge and a healthy lifestyle	ЖБП/ ООД/ GER	MK/ OK/ CS	ASBMASMP/ MSPZSPKP/ SAPKMSSSCSP 1105	Олеуметтік-саясаттану білім модулі (олеуметтану, саясаттану, мадинеттану, психология)/ Модуль социально-политических знаний (социология, культурология, психология)/ Social and political knowledge module (Social Studies, Political Studies, Cultural Studies, Psychology)	8	2	2	8/240	30	4	15	60	105		8.0				
9		ЖБП/ OOД/ GER	MK/ OK/ CS	DSH/ FK/ PC 1108	Дене шынықтыру/ Физическая культура/ Physical culture	2	2	2	2/60		3	30	30			2.0				
10		ЖБП/ ООД/ GER	MK/ OK/ CS	DSH/ FK/ PC 2111	Дене шынықтыру/ Физическая культура/ Physical culture	2	3	3	2/60		3	60	30				2.0			
11		ЖБП/ OOД/ GER	MK/ OK/ CS	DSH/ FK/ PC 2112	Дене шынықтыру/ Физическая культура/ Physical culture	2.	4	4	2/60		3	30	30					2.0		
12		ЖБП/ OOД/ GER	TK/ KB/ ES	Eko/ Eco 1123	Экономика/ Есопоту	5	1	1	5/150											
13		ЖБП/ ООД/ GER	TK/ KB/ ES	GZN/ ONI/ FOSR 1127	Fылыми зерттеулердің негіздері/ Основы научных исследований/ Fundamentals of scientific research	5	1	1	5/150											
14		ЖБП/ ООД/ GER	TK/ KB/ ES	Kas/ Pre/ Ent 1126	Кәсіпкерлік/ Предпринимательство/ Entrepreneurship	5	1	1	5/150											
15	Кәсіби және коммуникативтік/ Профессионально-	ЖБП/ ООД/ GER	TK/ KB/ ES	BZh/ LS 1125	Tipшiлiк әрекетінің кауіпсіздігі/ Безопасность жизнедеятельности/ Life safety	5	1	1	5/150	15	31	0	30	75	5.0					
16	коммуникативный/ Professional and communicative	ЖБП/ OOД/ GER	TK/ KB/ ES	Eko/ Eco 1124	Экология/ Ecology	5	1	1	5/150											
17		ЖБП/ ООД/ GER	TK/ KB/ ES	TAK/ PAK/ LAACC 1122	Құқық және сыбайлас жемкорлыққа қарсы мәдениет/ Право и антикоррупционная культура/ Law and anti-corruption culture	5	1	1	5/150											
18		ЖБП/ ООД/ GER	MK/ OK/ CS	AKT/ IKT 2107	Акпараттык- коммуникациялык технологиялар/ Информационно- коммуникационные технологии	5	3	3	5/150	15	30	0	30	75			5.0			

19	1 Модуль. Жаратылыстануды	БП/ БД/ BS	ЖК/ BK/ UC	Him/ Che 1238	Химия/ Chemistry	5	1	1		5/150	15	15.0	15		30	75	5.0						1
20	окыту/ Модуль 1. Естественно-научная подготовка/	БП/ БД/ BS	ЖК/ BK/ UC	ZhM/ VM/ HM 1241	Жоғары математика/ Высшая математика/ Higher Mathematics	5	1	1	1	5/150	15		30		30	75	5.0						
21	Module 1. Natural science training	БП/ БД/ BS	ЖК/ BK/ UC	Fiz/ Phy 2233	Физика/ Physics	6	3	3		6/180	15	30.0	15		30	90			6.0				
22		БП/ БД/ BS	ЖК/ ВК/ UC	MKMT/ MTKM/ MSATOSM 1263	Материалтану және конструкциялық материалдар технологиясы/ Материаловедение и технология конструкционных материалов/ Materials science and technology of structural materials	5	2	2		5/150	15	15.0	15		30	75		5,0					
23		БП/ БД/ BS	ЖК/ ВК/ UC	IKG/ CGWEB 2235	Инженерлік және компьютерлік графика/ Инженерная и компьютерная графика/ Сотритет graphics with engineering basics	6	3	3		6/180	15	30.0	15		30	90			6.0				
24	3 Модуль. Жалпы инженерлік дайындык/ Модуль 3. Общеинженерная	БП/ БД/ BS	ЖК/ ВК/ UC	TKM/ TPM/ TAAM 2234	Теориялық және қолданбалы механика/ Теоретическая и прикладная механика/ Theoretical and applied mechanics	5	4	4		5/150	15	15.0	15		30	75				5.0			
25	подготовка/ Module 3. General engineering training	БП/ БД/ BS	TK/	GZhMA/ GT/ HDAHAMT 2253	Гидрогазодинамика және жылу-масса алмасу/ Гидрогазодинамика и тепломассообмен/ Hydrogas dynamics and heat and mass transfer			4		5/150													
26		БП/ БД/ BS	KB/ ES	GZhTN/ OGT/ FOHAHE 2253	Гидравлика және жылу техникасы негіздері/ Основы гидравлики и теплотехники/ Fundamentals of hydraulics and heat engineering	5	4	4		5/150	15		30		30	75				5.0			
27		БП/ БД/ BS	TK/ KB/ ES	KKEK/ EBT/ ESIT 3246	Көлік құралдарының экологиялық кауіпсіздігі/ Экологическая безопасность на транспорте/ Environmental safety in transport	5	5	5		5/150	15		30		30	75					5.0		

28		БП/ БД/ BS		AKOKA/ OVAOS/ NEOCOTE 3246	Автомобильдердің коршаған ортаға кері әсері/ Отрицательные влияния автомобилей к окружающей среде/ Negative effects of cars on the environment			5	5/150										
29		БП/ БД/ BS	TK/	EKN/ OE/ FOES 3250	Электр қауіпсіздігі негіздері/ Основы электробезопасности/ Fundamentals of electrical safety			6	5/150									1	
30		БП/ БД/ BS	KB/ ES	EKKT/ TBEU/ SIPP 3250	Энергетикалық кондырғылардағы қауіпсіздік техникасы/ Техника безопасности в энергетических установках/ Safety in power plants	5	6	6	5/0	15	30		30	75				5.0	
31		БП/ БД/ BS	ЖК/ ВК/ UC	OP/ UP/ TP 1258	Оку практикасы/ Учебная практика/ Training practice	2	2		2/60			20		40	2.0				
32		БП/ БД/ BS	TK/ KB/ ES	TAOSK/ SBBIP/ NDATFATC 1252	Табиғи апаттар және олардың салдарымен күресу/ Стихийные бедствия и борьба с их последствиями/ Natural disasters and the fight against their consequences	5	2	2	5/150	15	30		30	75	5.0				
33	2 Модуль. Мамандыққа кіріспе/	БП/ БД/ BS		KTP/ OPP/ DNP 1252	Қауіпті табиғи процестер/ Опасные природные процессы/ Dangerous natural processes			2	5/150										
34	- Модуль 2. Введение в специальность/ Module 2. Introduction to the specialty	БП/ БД/ BS	ЖК/ ВК/ UC	TK/ BT/ SITT 2206	Техносферадағы қауіпсіздік/ Безопасность в техносфере/ Safety in the Technosphere	5	3	3	5/150	15	30		30	75		5.0			
35		БП/ БД/ BS	TK/ KB/ ES	ASTZhHK/ ChSSHZN/ SEAPOTP 2247	Олеуметтік сипаттағы төтенше жағдайлар және халықты корғау/ Чрезвычайные ситуации социального характера и защита населения/ Social emergencies and protection of the population	5	4	4	5/150	15	30		30	75			5.0		
36		БП/ БД/ BS		AK/ SO/ SH 2251	Әлеуметтік кауіптер/ Социальные опасности/ Social hazards			4	5/150										
37	4 Модуль. Арнайы медициналык- санитарлык және	БП/ БД/ BS	ЖК/ BK/ UC	OP/ PP 2257	Өндірістік практика/ Производственная практика/	5	4		5/150			50		100			5.0		

	құқықтық дайындық/				Production practice					1		1	1	1	-	1		1 1
38	Модуль 4. Специальная медико-санитарная и правовая подготовка/	БП/ БД/ BS		AM/ MK/ DM 2254	Апаттар медицинасы/ Медицина катастроф/ Disaster medicine			4	5/150									
39	Module 4. Special health and legal training	БП/ БД/ BS	TK/ KB/ ES	TKMBN/ MBOBZh/ BFOLS 2254	Тіршілік қауіпсіздігі медициналық- биологиялық негіздері/ Медико- биологические основы безопасности жизнедеятельности/ Biomedical fundamentals of life safety	5	4	4	5/150	15	30		30	75		5.0		
40		БП/ БД/ BS	ЖК/ ВК/ UC	OSEG/ PSGT/ ISAH 3236	Өндірістік санитария және еңбек гигиенасы/ Производственная санитария и гигиена труда/ Industrial sanitation and hygiene	5	5	5	5/150	15	30		30	75			5.0	
41		БП/ БД/ BS		AKI/ ASD/ ERC 2264	Авариялық- құтқару ici/ Аварийно- спасательное дело/ Emergency rescue case			4	5/150									
42		БП/ БД/ BS	TK/ KB/ ES	TZhKB/ TSChS/ TACIE 2264	Тотенше жағдайлардағы көлік және байланыс/ Транспорт и связь в чрезвычайных ситуациях/ Transport and communication in emergencies	5	4	4	5/150	15	30		30	75		5.0		
43	6 Модуль. Төтенше жағдайлардың алдын алу және коргау/ Модуль 6. Предупреждение и защита в чрезвы чайных	БП/ БД/ BS	TK/	UZhKK/ KISZ/ CAPPE 3242	Ұжымдық және жеке корғаныс құралдары/ Коллективные и индивидуальные средства защиты/ Collective and personal protective equipment			5	5/150									
44	ситуациях/ Module 6. Prevention and protection in emergency situations	БП/ БД/ BS	KB/ ES	MTKK/ MTSZ/ MATMOP 3242	Медициналық және техникалық корғау құралдары/ Медицинские и технические средства защиты/ Medical and technical means of protection	5	5	5	5/150	15	30		30	75			5.0	
45		БП/ БД/ BS	TK/ KB/ ES	KZhTTZhZh/ TSRLChS/ RTAER 3245	Кұтқару жұмыстарының тактикасы және төтенше жағдайларды жою/ Тактика спасательных работ и ликвидация чрезвычайных ситуации/ Rescue tactics and emergency response	5	5	5	5/150	15	30		30	75			5.0	

46	БП/ БД/ BS	-	KTNM/ STBM/ REABV 3245	Кұткару техникасы және негізгі машиналар/ Спасательная техника и базовые машины/ Rescue equipment and basic vehicles			5	5/1	150											
47	БП/ БД/ BS	TK/ KB/ ES	RHBKN/ ORHBB/ FORCABS 3261	Радиациялық, химиялық және биологиялық кәне биологиялық кауіпсіздік негіздері/ Основы радиационной, химической и биологической безопасности/ Fundamentals of Radiation, Chemical and Biological Safety	5	5	5	5/1	50	15	3	0		30	75		5.0	0		
48	БП/ БД/ BS		RKN/ ORB/ FORS 3248	Радиациялық кауіпсіздік негіздері/ Основы радиационной безопасности/ Fundamentals of radiation safety			5	5/1	50											
49	БП/ БД/ BS	ЖК/ BK/ UC	OK/ PB/ FS 3262	Өрт кауіпсіздігі/ Пожарная безопасность/ Fire safety	5	6	6	5/1:	50	15	3	0		30	75			5.0		
50	БП/ БД/ BS	ЖК/ BK/ UC	OP/ PP 3260	Өндірістік практика/ Производственная практика/ Production practice	5	6		5/1:	50				50		100			5.0		
51	БП/ БД/ BS		KOKT/ TZOS/ EPT 3249	Қоршаған ортаны корғау технологиясы/ Технология защиты окружающей среды/ Environmental protection technology			6	5/1:	50											
52	БП/ БД/ BS	TK/ KB/ ES	KOIKN/ OIZOS/ FOEE 3249	Қоршаған ортаны инженерлік корғау негіздері/ Основы инженерной защиты окружающей среды/ Fundamentals of environmental engineering	5	6	6	5/15	50	15	3	0		30	75			5.0		
53	БеП/ ПД/ AS	TK/ KB/ ES	TZhKKPB/ UZPPChS/ PAPMFES 4307	Төтенше жагдай кезінде коргау және персоналды басқару/ Управление защитой и персоналом при чрезвычайных ситуациях/ Protection and Personnel Management for Emergency Situations	5	7	7	5/15	50	15	30			30	75				5.0	

54		БеП/ ПД/ AS		AKUZh/ OVGO/ OACOCD 4307	Азаматтық корғанысты ұйымдастыру және жүргізу/ Организация и ведение гражданской обороны/ Organization and conduct of civil defense			7	5/150											
55	5 Модуль. Жалпы аграрлық- техникалық дайындау/ Модуль 5. Общая	БП/ БД/ BS	TK/ KB/ ES	OKATZh/ AASPP/ AAEAIE 3244	Өнеркәсіптік кәсіпорындардағы апаттар мен төтенше жағдайлар/ Аварии и аварийные ситуации на промышленных предприятиях/ Accidents and emergencies at industrial enterprises	5	5	5	5/150	15	30		30	75			5.0			
56	аграрно-техническая подготовка/ Module 5. General agricultural and	БП/ БД/ BS		OK/ PB/ IS 3243	Ондірістік қауіпсіздік/ Производственная безопасность/ Industrial safety			5	5/150											
57	technical training	БП/ БД/ BS	ЖК/ ВК/ UC	TTK/ BTT/ SOMAT 3239	Техника мен технологияның кауіпсіздігі/ Безопасность техники и технологии/ Safety of machinery and technology	5	6	6	5/150	15	30		30	75			4	5.0		
58		БП/ БД/ BS	ЖК/ ВК/ UC	TBBAK/ MSKMT/ MAMOCAMOTT 3240	Техносфераны бакылау және бакылау әдістері мен құралдары/ Методы и средства контроля и маниторинга техносферы/ Methods and means of control and monitoring of the technosphere	5	6	6	5/150	15	30		30	75				5.0	2	
59	7 Модуль. Жалпы бейіндік дайындау/ Модуль 7. Общая профильная подготовка/ Module 7. General profile training	БеП/ ПД/ AS	ЖК/ ВК/ UC	OKTR/ TRPB/ TROIS 4306	Онеркәсіптік кауіпсіздікті техникалық реттеу/ Техническое регулирование промышленной безопасности/ Technical regulation of industrial safety	5	7	7	5/150	15	30		30	75					5.0	
60		БеП/ ПД/ AS	ЖК/ ВК/ UC	TZhSTB/ NTSUR/ TSRARM 4304	Техникалык жүйелердің сенімділігі және тәуекелді баскару/ Надежность технических систем и управление риском/ Technical systems reliability and risk management	6	8	8	6/180	15	45		30	90						6.0

61		БеП/ ПД/ AS	TK/ KB/	EKBZh/ SUOT/ OHASMS 4305	Енбекті қорғауды басқару жүйесі/ Система управления охраной труда/ Оссираtional health and safety management system	5	7	7	5/150	15	30		30	76				
62		БеП/ ПД/ AS	ES	TKB/ UTB/ TSM 4305	Техносфералық қауіпсіздікті басқару/ Управление техносферной безопасностью/ Technosphere safety Management			7	5/150	. 15	30		30	75			5.0	
63		БеП/ ПД/ AS	TK/	KAK/ SZR/ SPOW 4310	Қызметкерлерді әлеуметтік қорғау/ Социальная защита работников/ Social protection of workers			7	5/150									
64	9 Модуль. Инженерлік-басқару	БеП/ ПД/ AS	KB/ ES	KSKB/ NKSB/ SSAC 4310	Қауіпсіздік саласындағы қадағалау және бақылау/ Надзор и контроль в сфере безопасности/ Security supervision and control	5	7	7	5/150	15	30		30	75			5.0	
65	дайындығы/ Модуль 9. Инженерно- управленческая подготовка/ Module 9.	БеП/ ПД/ AS	TK/	ESBZh/ SOPS/ CANS 4311	Ескерту және сымды байланыс жүйелері/ Системы оповещения и проводной связи/ Communication and notification systems			7	5/150									
66	Engineering and management training	БеП/ ПД/ AS	KB/ ES	BEZh/ CSO/ PAAWCS 4311	Байланыс және ескерту жүйелері/ Системы связи и оповещения/ Public address and wired communication systems	5	7	7	5/150	15	30		30	75			5.0	
67		БеП/ ПД/ AS	ЖК/ ВК/ UC	EKM/ EMB/ EASM 4314	Экономика және кауіпсіздік менеджменті/ Экономика и менеджмент безопасности/ Economics and security management	5	8	8	5/150	15	30		30	75				5.0
68		БеП/ ПД/ AS	ЖК/ BK/ UC	KP/ PP 4309	Кәсіптік практика/ Профессиональная практика/ Professional practice	5	8		5/150			50		100				5.0
69		БеП/ ПД/ AS	TK/ KB/ ES	OOEZhBA/ APOPUT/ COPFFWC 4313	Ондірістік объектілерді еңбек жағдайлары бойынша аттестациялау/ Аттестация производственных объектов по условиям труда/ Certification of	6	8	8	6/180	15	45		30	90				6.0

					production facilities for working conditions					-																
70		БеП/ ПД/ AS		ZhOAS/ ASRM/ CACOW 4313	Жұмыс орындарын аттестаттау және сертификаттау/ Аттестация и сертификация рабочих мест/ Certification and certification of workplaces			8			6/180															
71	8 Модуль. Кәсіби- техникалық дайындық/	БеП/ ПД/ AS		EE/ ET/ EOW 4308	Еңбек эргономикасы/ Эргономика труда/ Ergonomics of work			7			5/150															
72	Модуль 8. Профессионально- техническая подготовка/ Module 8. Vocational training	БеП/ ПД/ AS	TK/ KB/ ES	ETE/ ETE/ EATA 4308	Эргономика және техникалық эстетика/ Эргономика и техническая эстетика/ Ergonomics and technical aesthetics	5	7	7			5/150	15		30			30	75							5.0	
				Ко	сымша модульдер/Допол									les beyon	nd qualif	ication										
	Ортан	іа апталь	іқ жүкт	еменің сағат саны/		тандау	оонынша	модуль	дер/Модул	и по выбо	py/Modules o	of choice	e						1	T -	1					
		eekly ave	rage wo	агрузка в часах/ rkload at hours															0	0	0	0	0	0	0	0
1	Of	щеобразо Gener	вателы al educa	ру пәндері(ЖБП)/ ные дисциплины(О tion subjects(GER)	ОД)/	56		13	0	0	1680	90	0	465	0	0	420	705	22	20	12	2	0	0	0	0
H		Обязате	льный к Core subj	понент(ЖБП/МК)/ омпонент(ООД/ОК)/ ects(GER/CS)		51		12	0	0	1530	75	0	435	0	0	390	630	17	20	12	2	0	0	0	0
		Вузов	ский кол	ненті(ЖБП/ЖК)/ мпонент(ООД/ВК)/ mponent(GER/UC)		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			нент по	компонент(ЖБП/ТК выбору(ООД/КВ)/ es(GER/ES))/	5		1	0	0	150	15	0	30	0	0	30	75	5	0	0	0	0	0	0	0
2		Баз	овые ди	: пәндер(БП)/ сциплины(БД)/ virements(BS)		129		23	0	0	3870	345	105	615	0	120	690	1995	10	12	17	30	30	30	0	0
		Обязат	ельный	ипонент(БП/МК)/ компонент(БД/ОК)/ vjects(BS/CS)		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Вузо	вский ко	оненті(БП/ЖК)/ омпонент(БД/ВК)/ omponent(BS/UC)		69		11	0	0	2070	165	105	255	0	120	330	1095	10	7	17	10	5	20	0	0
		Тандау (ойынша онент п	а компонент(БП/ТК)/ о выбору(БД/КВ)/ ves(BS/ES)		60		12	0	0	1800	180	0	360	0	0	360	900	0	5	0	20	25	10	0	0
3		Профил	ирующі	і пәндер(БеП)/ не дисциплины(ПД) quirements(VRS)	/	52		9	0	0	1560	135	0	300	0	50	270	805	0	0	0	0	0	0	30	22
		Мінд Обязат	етті ком ельный і	понент(БеП/МК)/ компонент(ПД/ОК)/ ects(VRS/CS)		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5	Окытудың қосымша түрлері/ Дополнительные виды обучения/ Additional courses Корытынды аттест Модуль итоговой		IA)/							Ко. к <u>г</u>	иттер с личест редитов рег of ст	B0 s/	Акаде	ериод/	ский	Ko. Nu	саны/ личест часов/ imber hours			ичест іедель
Оқу жоспарі	ы бойынша барлығы/Итого по учебному плану/Total on curriculum	237		0	0	7110	570	105	1380	0	170	1380	3505	32	32	29 C	32 ағатта	30 D	30	30
	Тандау бойынша компонент(БеП/ТК)/ Компонент по выбору(ПД/КВ)/ Electives(VRS/ES)	31	6	0	0	930	90	0	195	0	0	180	465	0	0	0	0	0	0	25
	ЖОО компоненті(БеП/ЖК)/ Вузовский компонент(ПД/ВК)/ University component(VRS/UC)	21	3	0	0	630	45	0	105	0	50	90	340	0	0	0	0	0	0	5

Notes:

No	Факульт	ет / Кафедра
	ҚАЗАҚ ТІЛІНДЕ	IN ENGLISH
I	Агробиология	Agrobiology
1	Агрономия, селекция және	Agronomy, breeding and biotechnology
	биотехнология	
2	Жеміс-көкөніс шаруашылығы, өсімдік	Horticulture, plant protection and quarantine
	қорғау және карантин	
3	Топырақтану, агрохимия және экология	Soil science, agrochemistry and ecology
II	Ветеринария	Veterinary
4	Акушерлік, хирургия және	Obstetrics, Surgery and Reproductive
	өсіп-өну биотехнологиясы	Biotechnology
5	Биологиялық қауіпсіздік	Biosecurity
6	Клиникалық ветеринариялық медицина	Clinical Veterinary Medicine
7	Микробиология, вирусология және	Microbiology, virology and immunology
	иммунология	
8	Ветеринариялық санитариялық сараптау	Veterinary sanitary examination and hygiene
	және гигиена	
9	Н.У.Базанова атындағы «Физиология,	"Physiology, morphology and biochemistry"
	морфология және биохимия»	named after N.U. Bazanova
III	Су, жер және орман ресурстары	Water, land and forest resources
10	Орман ресурстары, аңшылықтану және	Forest resources, hunting and fisheries
	балық шаруашылығы	
11	Жер ресурстары және кадастр	Land resources and cadastre
12	Су ресурстары және мелиорация	Water resources and melioration
IV	«Бизнес және құқық» жоғары мектебі	Higher School "Business and Law"
13	Есеп, аудит және қаржы	Accounting, audit and finance
14	Х.Д.Чурин атындағы «Менеджмент және	"Management and organization of
	агробизнесті ұйымдастыру»	agribusiness" named after H.D. Churin
15	Құқық	Right
V	Зооинженерия және тағам өндірісінің	Zooengineering and food production
	технологиясы	technology
16	Зооинженерия	Zooengineering
17	Тағам өнімдерінің технологиясы және қауіпсіздігі	Technology and food safety
VI	Инженерлік-техникалық	Engineering
18	Аграрлық техника және механикалық инженерия	Agricultural machinery and mechanical engineering
19	И.В.Сахаров атындағы «Машина пайдалану»	"Machine use" named after I.V. Sakharov
20	Энергия үнемдеу және автоматика	Energy saving and automation
21	ІТ-технологиялар және автоматтандыру	IT technologies and automation
VII	Басқарма Төрағасы - Ректордың орынбасары	Deputy Chairman of the Board- Rector
22	Жалпы білім беру пәндер	General university department
23	Дене тәрбиесі және спорт	Physical education and sports
24	Оскери кафедра	Military department
- 1	оскори кафодра	wintary acparation

4. Competence map of modules

Codes	Module	Educational competence	Learning outcomes
MC1	Module. Humanities	aimed at the formation of fundamental	- demonstrate knowledge and
WEI	and language	source and historiographic materials, as well as for the achievement of modern historical science of Kazakhstan; to determine the role of the history of Kazakhstan in the system of humanitarian knowledge; on revealing the specifics of the object and subject of history of Kazakhstan for the analysis of topical problems of the modern stage of development; on creation of scientifically grounded concept of history of Kazakhstan based on integral and objective coverage of the main stages of ethnogenesis of the Kazakh people, evolution of forms of statehood and civilization in the Great Steppe; on systematization of knowledge of the main events of the modern history of Kazakhstan.	understanding of the main stages of development of the history of Kazakhstan
MC2		form a system of general competencies that ensure the socio-cultural development of the personality of the future specialist based on the formation of his ideological, civic and moral positions;	- to evaluate the surrounding reality on the basis of ideological positions, formed by the knowledge of the fundamentals of philosophy, which provide scientific understanding and study of the natural and social world by methods of scientific and philosophical knowledge; - to interpret the content and specific features of the mythological, religious and scientific worldview; - to give assessment to everything happening in the social and industrial spheres;
MC3		develop the ability to interpersonal social and professional communication in the state, Russian and foreign languages;	- implement the use of language and speech tools based on a system of grammatical knowledge; analyze information in accordance with the situation of communication; - to carry out the use of linguistic and speech means based on the system of grammatical knowledge; analyze information in accordance with the communication situation;
MC4	Module. Professional and communicative	The development of information literacy through the mastery and the use of modern information and communication technologies in all areas of life and work;	 evaluate the activities and actions of communication participants. to use in personal activities various types of information and communication technologies: Internet resources, cloud and mobile services

		for searching, storing, processing, protecting and distributing information;
MC5	Have an intolerant attitude toward corrupt behavior, respectful of legislation and law.	 analyze events and actions from the point of view of the area of legal regulation and be able to refer to the necessary regulatory acts; to be guided in the current legislation; using the law, to protect their rights and interests, to carry out professional activities on the basis of a developed legal awareness, legal thinking and legal culture; to acquire a sufficient level of legal awareness; be able to assess the facts and phenomena of professional activity from an ethical point of view; apply moral rules and norms of behavior in specific life situations
MC6	Be competent to analyze and obtain information in accordance with the basic knowledge of the economy; use the basics of economic knowledge in various fields; able to apply this knowledge in solving situational and practical problems.	- to know the fundamental problems of the functioning of the economy, the mechanism of action and manifestation of economic laws, as well as the main features of the leading schools and areas of economic science; - to be aware of economic terms and categories, use them in their educational activities; - to understand and know the main events of the world and domestic economic history, the course of ongoing reforms in the light of the strategy "Kazakhstan - 2050", development trends in the field of modern business; - to distinguish and compare the behavior of market agents in different types of market structures; - to explain the interaction of economic agents in macroeconomic markets; - to compare the impact of macroeconomic policies in different countries; - to argue their own views on modern macroeconomic phenomena; - to use the knowledge gained in practice to assess the results of economic reforms in Kazakhstan

MC7		To be competent in the application of methods for the implementation of low-waste production and the assessment of the environmental efficiency of economic activity.	- know the contents of the basic terms in the field of ecology, environmental management; modern global and regional environmental problems and their solutions; - be able to apply environmental knowledge to solve and predict possible environmental problems; - apply methods for the implementation of low-waste production and assess the environmental performance of economic activity establish causal relationships between phenomena occurring in nature and society, - apply environmental knowledge to solve and predict possible environmental problems
MC8		Module 1. Science Training To be competent in understanding the role of physical and mathematical knowledge for active work in environmental protection, rational environmental management, preservation and development of civilization, in graphic solution of technical problems; in the preparation and handling of technical and design documentation; in the use of GOSTS ESKD in the design of working drawings of parts, in professional communication in the state, Russian and English languages using modern multimedia tools and information and communication technologies, in writing and translating scientific texts	environmental problems. - apply knowledge in mathematics, physics, descriptive geometry and drawing in solving various theoretical and practical problems in production. - quote and explain production tasks in the state, Russian and English languages. - to possess interpersonal communication skills, the methodology of communication in a multilingual and multicultural society of the Republic of Kazakhstan and communication in the international arena. - use the solution of typical mathematical problems for the development of measures for labor protection, apply physical and mathematical methods to solve practical production problems. - describe and explain the results of observations and experiments on occupational health and industrial safety.
MC9	Module. Socio- political knowledge and a healthy lifestyle	form the skills of self-development and education throughout life;	-to assess situations in various spheres of interpersonal, social and professional communication, taking into account the basic knowledge of sociology, political science, cultural studies and psychology; - to synthesize knowledge of these sciences as a modern product of

			integrative processes; - to use scientific methods and approaches of research of a specific science, as well as the entire sociopolitical cluster; - develop their own moral and civic
			position; - operate with the social, business, cultural, legal and ethical norms of Kazakhstan society; - demonstrate personal and professional competitiveness; - to put into practice knowledge in the field of social sciences and humanities, having international recognition; - to make a choice of methodology and analysis; - summarize the results of the study; - to synthesize new knowledge and
MC10		form a personality capable of mobility in the modern world, critical thinking and physical self-improvement.	present it in the form of humanitarian socially significant products; - to build a personal educational trajectory throughout life for self-development and career growth, focus on a healthy lifestyle to ensure full social and professional activities through methods and means of physical culture.
MC11	Module 4. Special medical and legal training	To be competent in legislative matters to ensure the normal working conditions of employees, to be able to analyze socially significant problems and processes, the ability to render the first medical aid in case of accidents at work, to be able to identify dangerous and harmful production factors, to calculate the parameters of collective protective equipment and -have personal protective equipment	 to define the concept of the organization of safe and harmless working conditions of workers. make a message on the basics of labor law, methods of identifying hazards and hazards in the workplace. discuss in a competent environment and consider in detail the basics creating safe and harmless working conditions in enterprises; principles for designing occupational safety in enterprises. to demonstrate knowledge of the legal basis of the emergency medicine service in emergency situations in peacetime, to carry out medical and sanitary measures in the aftermath of emergency situations. calculate the conditions and modes of operation of the divisions of industrial enterprises and the equipment installed in them from the point of view of

MC12	Module 5. General agro- technical training	To be competent in creating safe working conditions in the industry and the agricultural sector, to have an idea of standardization and certification to achieve these goals, to know the basics of agricultural technology and technology	safety. - develop and implement measures to prevent industrial injuries and occupational diseases. - demonstrate an intolerant attitude towards corrupt behavior, respectful of law and law. - to define a specialist who carries out occupational health and labor protection in industry and the agricultural sector. - to formulate a distinctive basis for the technology of potentially hazardous industries, equipment and technological processes in the agricultural sector. - to classify hazardous and harmful properties of technological processes of the agricultural complex. - explore the results of the analysis and monitoring of environmental parameters.
MC13	Module 6.	To be competent in calculating the	 demonstrate the ability to make decisions in the event of adverse factors and dangerous situations. to define the functional
	Prevention and Protection in Emergencies	risk of undesirable events in technical systems, including fires and explosions, to be able to manage risks, to know how to eliminate the consequences of undesirable events, while respecting the basic requirements of labor protection and safety	responsibilities of a specialist who is able to prevent and reduce damage from the occurring accidents and disasters

		Professional competencies	measures to prevent and eliminate accidents, catastrophes and natural disasters. - modify the organizational structure of rescue units and services, their tasks and capabilities. - to classify dangerous and emergency situations of a social nature, to identify patterns of manifestation of emergency situations of a social nature. - draw up an action plan in case of a dangerous social situation. Learning outcomes
MC14	Module 7. General profile training	Possession of professional knowledge contributes to mastering the basics of project management and decision-making techniques that can minimize the consequences of negative environmental impacts and know the basic engineering methods of environmental protection. To be competent to be competent in matters of the danger of radioactive, biological and chemical substances, to know the maximum permissible doses and concentrations, to be able to apply effective protection, to be able to apply the requirements of technical regulations in professional activities, to be able to regulate industrial safety	- list the main objectives and principles of technical regulation of industrial safety to define the main industrial hazards and hazards of technological processes, recyclable materials and the resulting products apply the methods of examination of hazardous industrial facilities and the declaration of their safety use in professional activities provisions of technical regulations apply an effective labor protection management system that reduces the impact on working hazardous and harmful production factors develop a safety declaration of a hazardous production facility to investigate and take samples of air, soil and water in areas contaminated with radioactive substances, to make calculations of protective shields from various types of radiation, to conduct an analysis to assess the radiation situation in enterprises using

			radioactive sources.
MC15	Module 8. Vocational training	To be competent in assessing the workplaces of an industrial facility, certifying and declaring the safety of potentially hazardous facilities,	- list the main responsibilities of a specialist responsible for assessing working conditions and production hazards, organizing
		being able to organize civilian protection of the facility, know the working conditions and the basics of the agricultural business	civil defense services and mobilizing an industrial facility and an AIC facility. - development of methods for determining the reliability and risk of accidents at production facilities. - explain the principles of electrical equipment and power transmission. - explain the physical
			characteristics of sound waves and sound sources, the conditions for the propagation of acoustic waves in rooms. - apply regulatory documents in the field of occupational health to
			certify workplaces on working conditions choose a way to monitor compliance with safety measures.
			assess the adequacy and effectiveness of measures to prevent and eliminate emergencies at an industrial facility. - to illustrate with economic calculations the effectiveness of measures for the protection of labor and the environment in
MC16	Module 9. Engineering and Management Training	work, social protection of workers, to be able to prepare the population for action in emergency situations, to organize the protection of facilities for industrial and natural emergencies that can minimize the	organization of labor protection in agriculture.
		consequences of negative environmental impacts, know the basic engineering methods of environmental protection	 to define the methodology for teaching the population, personnel of enterprises and officials to act in the event of an emergency. make a list of regulatory documents on the organization of the civil defense object. develop a plan for organizing the protection of production personnel

and material and technical
resources at chemical, radiation.
explosion and fire hazardous
enterprises.
- streamline the evacuation
scheme for workers, employees
and their families.
- provide examples of methods
and techniques for training
workers in agriculture and
occupational safety.
- Establish a procedure for the
examination of regulatory legal
acts.
- to solve the problem of social
protection in the event of a crisis.
- draw up an action plan for the
protection of AIC facilities from
the effects of natural and man-
made emergencies.

Information about disciplines

Nº	Name of dis	cipline	Brief description of discipline(30-50 words)	Number of loans	Formable competencies (codes)
	The cycle of g	eneral e	ducation disciplines High school component	/ Optional	component
			Mandatory component		
	History Kazakhstan	of (SE)	Introduction to the course "History of Kazakhstan". Socio-economic, political and cultural development of Kazakhstan in the late nineteenth - early twentieth century. The national movement in Kazakhstan at the beginning of the twentieth century. Kazakhstan in 1917 - 1920 The historical origins of the formation of Soviet Kazakhstan. Socio-economic transformations in Kazakhstan in the 20-30s of the twentieth century. National-state building, socio-political life and culture of Kazakhstan in the 20-30s. XX century Kazakhstan during the Great Patriotic War of 1941 - 1945 Kazakhstan in the postwar years (mid 40s - mid 60s). Kazakhstan in 1965 - 1991 State building of the Republic of Kazakhstan. Social and economic development of the Republic of Kazakhstan. Ethno-demographic processes and interethnic relations in the Republic of Kazakhstan. Socio-political life and domestic policy of the Republic of Kazakhstan. Kazakhstan in the world community. Cultural and spiritual-ideological processes in the Republic of Kazakhstan.	5	MC1, LO1, LO2, LO3
2	Philosophy		The concept of matter. Matter as a philosophical category. The subject of philosophy in the analysis of the phenomenon of consciousness. The concept of dialectics. Dialectics as a science. Dialectic tools. Forms and levels of knowledge. The subject of philosophy in the analysis of the social form of motion of matter. The essence of man and the meaning of his existence. Politics as a form of public	5	MC1, LO1, LO3, LO3

		consciousness. The origin and essence of global problems.		
3	Foreign language	Practical knowledge of foreign language skills: participation in conversations and negotiations of a professional nature, expression of an extensive register of communicative intentions (informing, explaining, clarifying, advising, arguing, instructing, illustrating, etc.); possession of all types of monologue utterances, including such as presentation, understanding of utterances and messages of a professional nature; mature knowledge of all types of reading original literature of various functional styles and genres; Ability to conduct business correspondence, prepare working documentation, abstracts, reports, reports, etc.; Ability to translate professional information from a foreign language into Russian and from Russian into a foreign language.	10	MC3, LO1, LO3
4	Kazakh (Russian) language	Systematization and deepening of knowledge in the field of spelling, grammar, punctuation; acquaintance of students with the stylistic varieties of the Russian language, in particular with the scientific style of speech and its features; development of students in-depth communicative competence based on the language of the specialty; teaching methods and techniques of structural-semantic and semantic analysis of a scientific text; teach to extract the necessary information from the text, describe it, summarize and interpret in order to use in the process of educational and professional communication; to teach the use of language knowledge to solve the problems of educational and professional communication; mastery of the cultural, scientific, technical, spiritual wealth of the Russian language.	10	MC3, LO1 LO3
5	Information and communication technologies (in English)	Information educational technologies: conceptual and terminological apparatus. History and modernity. Copyright. Problems of vocational training in high technology. The prospect and development trend of	5	MC4, LO3, LO5

		information educational technologies. The role of computer networks. Classification and purpose of software. Types of computer networks: local, regional and global. Basic concepts (TCP / IP protocol, client / server, providers). Connection to local and global networks. Classification of global network services. Educational services Internet. Search engines. Email. Real-time communication. Computer systems in telephony: classification, purpose, structure. Principles of data protection and access restrictions.		
6	The module of socio-political knowledge (sociology, political science, cultural science, psychology)	The module contains knowledge on sociology, citizenship and patriotism, on the ability to solve production problems using knowledge of sociology and psychology.	8	MC2, LO1,LO2, LO3, LO5
1	Law and anti-corruption culture	Aesthetic concepts and categories, content and features of professional ethics in legal activity, possible ways (methods) of resolving moral conflicts in the professional activities of a lawyer, the essence of professional and moral deformation and ways to prevent and overcome it, features of the etiquette of a lawyer, its main norms and functions; ways to assess the facts and phenomena of professional activity from an ethical point of view, the application of moral rules and norms of behavior in specific life situations.	5	MC5, LO1, LO2, LO9
	Economics	The subject and method of economic theory. General concepts of economics. Economics: economy and science. The main stages in the development of economic science, the largest representatives and major schools. Features of the development of economic theory at the end of the XX-beginning of the XXI centuries. Two branches of economic theory: political economy and economics. The definition of the subject of economic theory in political economy and economics.		MC5, LO1,LO2, LO4

	*	The structure of economic science and the		
	Ecology	place in it of economic theory. Ecological safety. State environmental policy. Environmental and resource-saving		MC5,
		legislation. Legal mechanisms of environmental protection (EIA, environmental impact assessment, environmental control, environmental audit, etc.). Scientific foundations of sustainable development, the contribution of domestic and foreign science to the formation of the		LO1,LO5, LO7
		ideology of sustainable development.		
	The cycle of ba	asic disciplines High school component / Option	nal compo	nent
	versity component		,	
8	Mathematics	Matrix concept, types of matrices, actions on matrices. Determinants of any order, properties of determinants, inverse matrix, matrix rank, elementary transformations. Step matrix, Gauss method of reduction to step form. The space of arithmetic vectors, linear dependence and independence, bases. Systems of linear equations. General concepts. Gauss solution to eliminate unknowns. The general theory of systems of linear equations: the condition of non-trivial compatibility of a homogeneous system, the fundamental system of solutions of a homogeneous system, its construction and structure of the general solution; heterogeneous systems, the structure of the general solution.	5	MC8, LO1, LO6
9	Physics	The purpose of teaching the discipline "Physics" is to form a modern understanding of the physical picture of the world among students, the skills of research, obtaining and processing experimental results, as well as the skills of modeling physical processes in solving specific problems; development of the student's creative abilities in order to master new high technology in their specialty. Having studied the course of physics, the student must master the fundamental concepts, laws and theories of the foundations of modern physics, the methods of physical research, master the methods of solving applied problems from	5	MC8, LO1, LO5, LO6

	various fields of physics.		
Chemistry	The concept of a chemical element and its forms of existence: free atoms, simple and complex substances. The transformation of substances. The difference between chemical reactions and physical phenomena. The role of chemistry in human life. Hemophilia and hemophobia. Brief information from the history of the development of chemistry. The period of alchemy. The concept of the philosopher's stone. Chemistry in the 16th century The development of chemistry in Russia. The role of domestic scientists in the formation of chemical science is the work of M. V. Lomonosov, A. M. Butlerov, D. I. Mendeleev. Chemical symbolism. Signs of chemical elements and the origin of their names. Chemical formulas. Indices and Odds. Relative atomic and molecular masses. Calculation of the mass fraction of a chemical element by the formula of a substance. The periodic system of chemical elements DI Mendeleev, its structure: small and large periods, groups and subgroups (main and secondary). The periodic system as a reference manual for obtaining	6	MC8, LO1, LO5, LO6
Man-made accidents	The discipline "Natural and disasters" forms students with specialty 6B073100 "Life Safety and AIA" solid knowledge about natural disasters, about methods for their prediction and modeling, their consequences, as well as the choice and definition of protective measures. Causes of man-made accidents. Accidents in hydraulic structures, in transport. Brief description of major accidents and disasters.	4	MC9, LO5, LO11, LO12
Safety in the technosphere.	Rescue and emergency emergency recovery operations in the liquidation of major accidents and disasters. The structure of state safety management in the technosphere. State policy and principles of state safety management in the	4	MC9, LO1, LO5, LO7, LO11, LO12
	Natural disasters Man-made accidents	Chemistry . The concept of a chemical element and its forms of existence: free atoms, simple and complex substances. The transformation of substances. The difference between chemical reactions and physical phenomena. The role of chemistry in human life. Hemophilia and hemophobia. Brief information from the history of the development of chemistry. The period of alchemy. The concept of the philosopher's stone. Chemistry in the 16th century The development of chemistry in Russia. The role of domestic scientists in the formation of chemical science is the work of M. V. Lomonosov, A. M. Butlerov, D. I. Mendeleev. Chemical symbolism. Signs of chemical elements and the origin of their names. Chemical formulas. Indices and Odds. Relative atomic and molecular masses. Calculation of the mass fraction of a chemical element by the formula of a substance. The periodic system of chemical elements DI Mendeleev, its structure: small and large periods, groups and subgroups (main and secondary). The periodic system as a reference manual for obtaining information on chemical elements. Natural disasters Natural disasters The discipline "Natural and disasters" forms students with specialty 6B073100 "Life Safety and AIA" solid knowledge about natural disasters, about methods for their prediction and modeling, their consequences, as well as the choice and definition of protective measures. Causes of man-made accidents. Accidents in hydraulic structures, in transport. Brief description of major accidents and disasters. Rescue and emergency emergency recovery operations in the liquidation of major accidents and disasters. Safety in the technosphere. State policy and principles	Chemistry The concept of a chemical element and its forms of existence: free atoms, simple and complex substances. The transformation of substances. The difference between chemical reactions and physical phenomena. The role of chemistry in human life. Hemophilia and hemophobia. Brief information from the history of the development of chemistry. The period of alchemy. The concept of the philosopher's stone. Chemistry in the 16th century The development of chemistry in Russia. The role of domestic scientists in the formation of chemical science is the work of M. V. Lomonosov, A. M. Butlerov, D. I. Mendeleev. Chemical symbolism. Signs of chemical elements and the origin of their names. Chemical formulas. Indices and Odds. Relative atomic and molecular masses. Calculation of the mass fraction of a chemical element by the formula of a substance. The periodic system of chemical elements DI Mendeleev, its structure: small and large periods, groups and subgroups (main and secondary). The periodic system as a reference manual for obtaining information on chemical elements. Natural disasters The discipline "Natural and disasters" forms students with specialty 6B073100 "Life Safety and AIA" solid knowledge about natural disasters, about methods for their prediction and modeling, their consequences, as well as the choice and definition of protective measures. Man-made Causes of man-made accidents. Accidents in hydraulic structures, in transport. Brief description of major accidents and disasters. Rescue and emergency emergency recovery operations in the liquidation of major accidents and disasters. Rescue and emergency emergency recovery operations in the liquidation of major accidents and disasters. The technosphere. State policy and principles

		Interdepartmental Commission on labor protection of the republican executive body, as a subject of state safety management in the technosphere in the Republic of Kazakhstan.		
13	Social hazards	Social protection system, social security, social guarantees, social support, social insurance. General characteristics of the social protection system for workers, sources of social security law, the effect of regulations in time, in space and by category of employees, financial, legal and organizational basis for social protection of workers, the main mechanisms of social protection in case of social risks, etc.	6	MC8, LO1, LO2, LO3, LO8, LO9
	Anthropogenic sources of dangers	Conditions of human life (the internal environment of the human body), habits, social ecology, professional human activities, transport communications, the natural environment. Violation of the rules for the operation of technical systems and facilities, technical imperfection. Anthropogenic interference in the natural environment, man-made emergencies. Social risk. Social groups. Economic risk. Decreased quality of life. Increased production hazard		
14	Engineering graphics	Projection apparatus. Complex drawing (Monge diagram). Projection points. Octants. Additional projections. Axonometry formation, definitions, terms. Standard axonometry. Point in a perspective view. Modern technologies in the field of CAD. Computer graphics, geometric modeling and their tasks. AutoCad graphics package, features of construction. Menu structure, toolbars, command line, mouse use. The structure of the drawing file. 2D - modeling in graphic systems. Graphic solution to technical problems; Drafting and handling of technical and design documentation; The use of GOST GOST ESKD in the design of working drawings of parts.	6	MC10, LO4, LO5
Opt	ional component	parto.	, , , , , , , , , , , , , , , , , , , 	
15	Theoretical and	The structure of the elements of	6	MC10, LO1,

	applied mechanics.	mechanisms. Links of mechanisms. Classification of links. Kinematic pairs. The element of the kinematic pair. Classification of kinematic pairs. The number of degrees of freedom of a kinematic pair. Kinematic		LO4, LO6
		chains and their classification. The degree of mobility of the kinematic chain. Somov-Malyshev formula. Chebyshev formula. Mechanisms and their classification. Friction in kinematic pairs. Basic concepts. Types of friction. Friction force. Full rest friction force. The friction force of motion. The coefficient of friction of rest. Coefficient of friction of motion. Amonton-Coulomb Law. The angle of friction of rest. The angle of friction of the movement. Friction cone of rest. Friction cone of motion. Friction in lower kinematic pairs. Friction in a progressive pair on horizontal		
		and inclined planes. Friction in a helical pair. Friction in a rotational pair. Rolling friction. A pair of rolling friction.		
	Engineering mechanics.	Axioms of statics. The equilibrium of bodies under the action of converging forces. The equilibrium of bodies under the action of a flat system of forces. Balance of forces taking into account friction. The theory of forces and pairs in space. The moment of force about the axis. The balance of forces under the influence of spatial forces. The tasks of kinematics. The laws of motion of the point. Speed and acceleration of a point in various ways of setting motion. The plane motion of a solid. Speed determination using instant center of speed. Acceleration of body points in plane motion. Laws and problems of dynamics.		
16	Structural safety of vehicles	design features of vehicles; active safety; passive safety; post-accident safety; environmental safety; engineering calculations of means and devices for safety; regulations and best practices in this area. Analyze the design of vehicles and motor vehicles, as well as their components and assemblies from the standpoint of active, post-accident and fire safety; evaluate the	5	MC10, LO5

		effectiveness of the elements of the constructive safety of vehicles; in the knowledge of the fundamental laws of the constructive safety of vehicles, their application in solving specific problems of modern automotive technology.		
	Environmental safety in transport	The study of the main patterns of interaction in the system "Transport - Society - Environment" and the formation of ideas about environmental approaches to solving environmental problems in transport. study the requirements in the field of environmental protection (EP) for transport enterprises. Know the legal norms, legislative acts, environmental protection standards, the principles of scientific organization of work on environmental protection in transport, modern methods of cleaning exhaust gases and wastewater at transport enterprises. Obtain the skills of practical calculations to determine the impact on the environment of transport, various technological processes and installations, allowing to assess the state of the environment at the enterprise and plan measures to reduce the anthropogenic load on nature.		
17	Disaster medicine	Characteristics of natural disasters, industrial accidents and disasters, their impact on the population. The mechanism of the negative impact of emergency situations on humans; determination methods and regulatory levels of permissible negative effects on humans; methods for assessing the medical situation in emergency zones to be able to carry out calculations and mathematical modeling of the medical situation, organize the primary life support of the affected population in emergency zones, provide first aid to victims of emergency situations in peacetime and wartime.	6	MC11, LO7, LO8, LO11, LO12
	First Aid	General patterns of growth and development of the human organism. To create optimal working conditions and protect the body of a working person, it is necessary to know		

		the structure of a person and the physical processes taking place in it. Preservation of life and health is the most important human need. General acquaintance with the human body. A cell, its structure and chemical composition. Vital cell properties. The internal environment of the body. Tissues and organs. Organ system. Musculoskeletal system. General information about the skeleton. Skeleton, trunk, limbs. Skull. Bone joint. General information about the muscles.		
18	Labor law	Labor conditions - conditions of payment, labor standards, working hours and rest periods, the procedure for combining professions (positions), expanding service areas, fulfilling the duties of a temporarily absent employee, labor safety and protection, technical, working and living conditions, as well as other as agreed by the parties, working conditions.	6	MC11, LO1, LO2, LO3, LO8, LO9
	Regulatory and legal framework in the LS	Basic provisions of the laws of the Republic of Kazakhstan on BZD; interstate standards for Belarusian Railways; regulatory framework for life safety; basic rights and obligations of employees and the employer; public administration functions in the field of life safety; rights and obligations of state inspectors.		
19	Industrial hygiene and occupational health.	Fundamentals of industrial hygiene and occupational health as a whole. Organizational, methodological, regulatory and technical and legal foundations of industrial sanitation and occupational health. Identification of environmental hazards. Assessment of the severity and intensity of work. Efficiency and its dynamics. Organization of the labor process. Technical aesthetics. Features of the work of women and adolescents.	5	MC11, LO5, LO7, LO8, LO11, LO12
	Industrial Toxicology	Introduction to Industrial Toxicology. Goals, content and objectives of the course, its role in the training of specialists. Legislative acts of the Republic of Kazakhstan in the field of ensuring ecotoxicological, chemical and toxicological		

		safety. Organizational and theoretical foundations of ensuring ecotoxicological safety. Concepts and definitions. ecotoxic substances. Classification of ecotoxicological hazards in the humanhabitat system. Acute and chronic poisoning. Long-term effects of toxic substances. Cumulative effects of toxic substances and types of cumulation. Maximum allowable levels of poisons and radioactive substances		
20	Fundamentals of safety and ecology in the agricultural sector	Negative factors inherent in the agricultural sector. An unstable environmental situation that adversely affects the activities of all sectors of the national economy, especially the agricultural sector. related to the class of maximum professional risk. The problems of life safety in the agro-industrial complex is an acute social problem. A high degree of injuries and occupational diseases leading to death in the agricultural sector. Requirements for sanitary standards and safety regulations. The growth rate of occupational morbidity and industrial injuries in the agricultural sector. Ensuring the safety of production and labor protection of workers and employees of the agricultural sector is one of the main problems of the national security of the country.	6	MC12, LO1,LO5, LO6, LO7, LO13
	The economic basis for ensuring industrial safety	The purpose of teaching the discipline "Fundamentals of electrical safety" is to form students' perceptions of the dangers of electric current. The effect of the electric eye on the human body, the path of the passage of current through the human body, the dependence of the severity of electric shock on environmental conditions is studied. Individual and collective protection against electric shock. Protective grounding and grounding.		
21	Potentially hazardous technologies and production	Potentially hazardous technologies Process safety assessment. Properties, extraction and processing of mineral raw materials for the purpose of its integrated use. Technologies and production processes of developing industries. Assessment of their safety,	6	MC12, LO5, LO6, LO11, LO13

	Safety Technique	decision-making at the plant on the safety and environmental friendliness of technological schemes and calculations. Prevention of possible negative consequences of industrial accidents and disasters. Fundamentals of technologies of the main		
	in AIC	industries Introduction Subject "Fundamentals of technology of the main industries", its composition and content. The purpose and objectives of the discipline, its place in the system of training engineers to ensure occupational safety and livelihoods. The relationship of the course with science, applied and special subjects. Scientific and technological progress in the technology of the main industries and the role of domestic scientists and engineers in it.		
22	Collective and personal protective equipment	Classification of personal and collective protective equipment. Appointment of various classes of PPE. Organization of the provision of workers and the population of personal protective equipment. Personal respiratory protection (PPE). Filter gas	6	MC13, LO7, LO10, LO11, LO13
	Special clothing	masks. Isolating breathing apparatus. Industrial gas masks. Respirators Insulating skin protection products (suits). Skin filtering agents.		
	Special clothing	Thermal balance, its effect on the well-being of a person. Heat transfer and heat transfer characteristics. Indicators of thermal state and categories of assessment. Microclimate in the clothing industry. Hygiene requirements for clothing. The main indicators of the physical and hygienic properties of textile materials. The basic principles of designing clothes for protection against the cold. Calculation of thermal resistance of household special clothing. The basic principles of designing clothes for protection against heat. Modeling the process of air exchange in the underclothes space. The basic principles of designing special clothing. Methods of physiological and hygienic assessment of clothing.		

23	Fundamentals of radiation, chemical and biological safety	protection against radiation, safety of	6	MC13, LO5, LO7, LO10, LO11, LO13
	Chemistry of waste	The complex nature of raw materials for the production of non-ferrous metals. Polymetallic raw materials, prospects and the possibility of its complex processing. Characteristics and nomenclature of the waste of the mineral resource complex, taking into account their use in economic sectors. Formation of technogenic deposits. Analysis of modern technologies for waste processing. The main types of industrial waste (slag, sludge, dust, intermediate products), their composition, quantity, directions of use and processing. Recovery from waste, processing and use of heavy non-ferrous metals.		
24	Fire safety	Fire and explosion protection and fire fighting methods. Automatic fire extinguishing equipment. Signaling. The peculiarity of extinguishing fires in the oil and gas industry. Fire resistance of building structures. Methods of increasing fire resistance. Life-threatening factors in case of fire and explosion. Fire and explosion of technological processes, buildings and structures. Limiting the spread of fires. Categorization of industries for explosive and fire hazard. Classification of buildings and structures from their method of use. Ways to increase the fire resistance of	5	MC13, LO5, LO6, LO7, LO8, LO11, LO12

		buildings and structures.		
	Organization of the fire service.	Features of the actions of the fire service units when dealing with massive fires. Extinguishing fires and conducting related emergency rescue operations in conditions of increased radiation. Psychological training and safety measures for extinguishing fires and conducting rescue operations. Peculiarities of the actions of forces and means of teaching staff at the elimination of foci of chemical contamination. Peculiarities of the actions of forces and means of teaching staff at the elimination of foci of chemical contamination.		
25	Emergency and rescue business. Transport and communications in emergency situations	Organizational basis for rescue operations during accidents at mining enterprises, oil and gas fields. Organization and technology of rescue operations to eliminate the consequences of accidents. Search and release of victims. Rescue work during the liquidation of natural emergencies. Security measures during rescue operations in the conditions of the destruction of buildings. The procedure for the use of forces and means of Civil Defense for emergency rescue operations. Engineering support of measures for the prevention and liquidation of emergency situations. General information about rescue equipment and basic vehicles. Machine parts. General purpose mechanisms. Transporting and loading and unloading machines. Hoisting machines and mechanisms. Machines for earthworks. Manual machines. Fundamentals of the operation of rescue equipment and basic machines. General information about road transport. Car operation. Railway, water and air transport. The interaction of vehicles when performing rescue operations. Promising Communications	5	MC13, LO6, LO7, LO11, LO12, LO13
26	Documentation and paperwork in the BZ	The discipline "Documentation and paperwork in the BZ" is intended for students of higher educational institutions studying in specialty 6B11201-БЖиЗОС. It	5	MC9, MC14, LO1, LO2 LO3, LO8, LO14

	T			
		contains the following basic materials.		
		Documentation of administrative		
		documents.		
	Protection and	Documentation of work with personnel.		
	Personnel	Organization of workflow. Registration of		
	Management for	documents. Organization of control over the		
	Emergency	execution of documents. Organization of		
	Situations	storage of documents. Transfer cases to the		
		archive.		
		The cycle of majors		
Opt	ional component	, and the same of		
27	Technical	Legal basis of technical regulation of	6	MC14, LO4,
	regulation of	industrial safety. Main goals and principles	O	LO6, LO10,
	industrial safety.	of technical regulation. The structure of the		LO12, LO13
		state system of technical regulation.		2012, 2013
		Competence of the authorized body in the		
		field of technical regulation. Competence of		
		a state body in the field of technical		
		regulation. Gosstandart of the Republic of Kazakhstan and the basics of		
		standardization. Fundamentals of metrology,		
		classification and metrological		
		characteristics of measuring instruments.		
		Theoretical and organizational aspects of		
		certification. Technical regulations: concept		
		and essence. Application of technical		
		regulations. The procedure for the		
		development and adoption of technical		
		regulations. Change and cancellation of		
		technical regulations.		
	Methods and means	Standardization documents and types of		
	of control and	standards. Technical regulations, their status		
	measurement	and application. Rules for standardization	380	
		(PR) and recommendations for		
		standardization (P). Technical conditions		
		The structure of the system of state		
		supervision and control. The main tasks of		
		Gosstandart in the Republic of Kazakhstan.		
		The main functions of the State Standard of		
		the Republic of Kazakhstan. The structure of		
	a l	the territorial bodies of Gosstandart of the		
		Republic of Kazakhstan. Scientific and		
		technical information on industry standards		
		published by the State Standard of the Republic of Kazakhstan. Measurement		
	4			
		model and basic tenets of metrology.		

28	Reliability of technical systems and risk management	Basic concepts of reliability of technical systems, with classification of failures, quantitative indicators of reliability, laws used in reliability theory. Human reliability issues. The influence of climatic factors on reliability. Reliability criteria, selection of indicators, collection of information and methods of its processing. Reliability service organization, experimental assessment, risk theory and risk management.	6	MC14, LO4, LO6, LO10, LO12, LO13
	Reliability analysis of technical systems	The task of discipline, its place in the system of training engineers. Basic and additional literature. The main features of complex systems. Functioning system. The mathematical description of the processes of functioning. Management of technological systems. The essence of management processes. Governing body and control object A systematic approach to the analysis of objects of human activity. Conditions and means of solving the problem. The study of physical and technical systems. Systemic risk analysis Systematic approach to security. Traditional risk analysis system.		
29	Declaration of safety of production facilities	Legislative and legal framework for industrial safety of the Republic of Kazakhstan. Law of the Republic of Kazakhstan "On Civil Protection". Basic concepts. The regulatory framework for the development of the Declaration of security facility. The list of hazardous production facilities and their characteristics. Basic requirements for industrial safety. The largest industrial accidents in world practice. The role of climatic conditions and the location of enterprises on the occurrence and development of accidents.	5	MC15, LO4, LO6, LO10, LO12, LO13
	Organization of civil defense of the object	Structure of the Civil defense system of the object. Assessment of the possible situation in the organization during natural disasters, accidents, catastrophes. Organization of protection of production personnel and material and technical equipment at chemical, radiation, explosive and fire hazardous enterprises. Organization and		MC15, LO5, LO6, LO7, LO11, LO12, LO13

		implementation of dosimetric and chemical control, rescue and other urgent work to eliminate the consequences of natural disasters, accidents and catastrophes. Evacuation of workers, employees and their families. Protective structures available in organizations, their equipment. The procedure for the accumulation of personal protective equipment, the rules for their storage and issuance. The order and methods of warning and communication in organizations in the interests of emergency situations and civil defense.		
30	Ergonomics and technical aesthetics.	Problems of adaptation of the working environment to the capabilities of the human body. The system "man - a tool of labor - the working environment" and recommendations for its optimization. The role of ergonomics in the implementation of mechanization and automation of technological processes. Work safety technical aesthetics.	6	MC15, LO1, LO6, LO8, LO14
	Organization of the work of the rescue service	Priority emergency rescue and other urgent work to save people and material assets in the affected areas, prevent the further development of emergency situations, as well as participate in the elimination of accidents on utility networks. Search and rescue of people in the rubble, zones of destruction of buildings and structures. The provision of interaction with the personnel of the state fire service, emergency medical care, public order policing, emergency services of housing and communal services and other units involved in emergency response.		MC15, LO5, LO6, LO7, LO11, LO12, LO13
31	Certification of production facilities according to working conditions	Forms and methods of organizing work on accounting, evaluation, certification, rationalization and planning of jobs. Ensuring and developing the initiative of a creative, businesslike attitude to business. Regulation on certification of production facilities under working conditions. Identification of jobs requiring certification. Work environment options. Instruments and equipment for the evaluation of jobs.	5	MC15, LO6, LO7, LO10, LO12, LO13

		Calculation of the severity and monotony of		
		labor. The composition of the commission		
		on certification of jobs.		
	Elimination of the	Elimination of emergencies by forces and		MC15, LO5,
	consequences of			LO6, LO7,
	emergencies	subsystems of the State Emergency Service,		LO11, LO12,
		in the territory and facilities of which they		LO13
		arose. The scale of the emergency and the		2013
		territorial authorities of the Ministry of		
		Emergencies. The central body of the		
		Republic of Kazakhstan in emergency		
		situations. Disaster management and major		
		industrial accidents. Volumes of engineering		
		and rescue and emergency restoration work. The situation with a limited time and a		
		possible threat of their repeated exposure, as		
		well as the need for assistance to victims as		
		soon as possible. Organization and sequence		
		of implementation of SNAVR. Types of		
		structures, types of work, the nature of the		
		destruction, the availability of equipment.		
		Preparedness of rescuers, time of year and		
		day, weather conditions and other factors		
		affecting the course of ATS.		
32	OSH management	Principles for creating healthy and safe	5	MC16, LO1,
	system.	working conditions. Organizational and		LO2, LO6,
		managerial methods in professional and		LO7, LO10,
		social activities on labor protection. The role		LO13
		of trade unions in labor protection.		
		Occupational safety control system. The		
		current system of regulatory legal acts in the		
		field of technosphere safety. The		
		organizational foundations of the safety of		
		various production processes in normal		
		conditions and emergency situations.		
		Requirements of the Labor Code of the		
		ORC for a safety management system in the		
		technosphere.		
	Environmental	Basic concepts of environmental		MC15, LO1,
	engineering.	engineering. Objects, principles and		LO4, LO7,
	8	methods of environmental engineering.		LO12
		Ecological systems. Types of pollution and		LOTZ
	_ r	environmental damage. Types of human		
		intervention in the biosphere. The main		
		environmental aspects of environmental		
		engineering Society and the anyimmental		
		engineering. Society and the environment.		

		The interaction of production and the environment. Solving environmental problems in individual industries. Protection of air from pollution. Water protection. Protection of biological resources. Environmental protection during the storage of industrial waste. Soil protection from pollution.		
33	Social protection of workers.	Social protection system, social security, social guarantees, social support, social insurance. General characteristics of the social protection system for workers, sources of social security law, the effect of regulations in time, in space and by category of employees, financial, legal and organizational basis for social protection of workers, the main mechanisms of social protection in case of social risks, etc.	5	MC16, LO1, LO3, LO5, LO8, LO9, LO14
	Environmental impact assessment and environmental impact assessment	Methodological, legal and regulatory frameworks and principles of environmental impact assessment. Theoretical and legal basis for the development of EIA. Environmental impact assessment methods. Development of environmental protection measures. Examination of project documentation in the framework of the EIA.		MC16, LO1, LO4, LO7, LO12, LO14
34	Recruitment and training of personnel;	Activities for the training of personnel for new activities; work with a reserve of personnel (determination of needs, recruitment and promotion, the main areas of training and related activities); selection, training and advanced training of managers and persons working with staff; training and professional development of scientists and specialists; referral of personnel for training and advanced training taking into account future needs; work with graduates of schools and universities; special forms of retraining and advanced training of personnel.	7	MC16, LO2, LO8, LO9, LO14
	Organization and monitoring of environmental work.	Modeling of ecological and economic systems. Systems for obtaining basic information for monitoring systems. Regional systems of environmental and economic monitoring. Monitoring as a means of environmental management of the enterprise. Monitoring of projects and		MC16, LO1, LO4, LO7, LO12, LO13

		programs that implement market-based mechanisms for trading quotas. Observations of natural water pollution. Observation of soil pollution. Observations of air pollution. Monitoring of terrestrial ecosystems located in the zone of intense anthropogenic impact. The nature management structure at the enterprise.		
35	Physiology and psychology of labor	. The role of psychophysiological factors in the protection of labor activity. The physiological basis of labor. Physiology of the central nervous system. Consciousness and thinking. Work. The severity and stress of work. Fundamentals of physiology of work, fatigue and prevention. Methods and tools of the psychology of labor. Organizational development in the workforce. Labor collective. Psychology of personality and team. Management of the labor collective. The condition and nature of labor. Safety and accident prevention. The effect of stress on the functional systems of the organism and on labor activity. Extreme conditions of human activity in the process of work.	7	MC16, LO1, LO2, LO6, LO7, LO10, LO13
	Reclamation of disturbed lands	A set of actions aimed at restoring the national economic value of devastated soils, at restoring their productivity, at improving the conditions of the entire environment. The sequence of technical and biological reclamation of disturbed lands. Inventory, identification, accounting and mapping, determining the area and establishing the level of quality. Reclamation directions. Agricultural direction, recreational direction, water-economic direction, the creation of new agricultural land.		MC16, LO1, LO4, LO7, LO12, LO13

Application to the EP

Application 1

Practice base

No	Name of companies, enterprises, organizations	Contacts, phone, e-mail
-	organizations	The Republic of Kazakhstan,
		050014, Almaty,
1	LLP YerAn-EcoTrans	Ryskulova ave., 73a, office 8
1		Tel: +7 727 251 65 79 +7 727 251 65 80
		bromelia85@mail.ru
1	LLP «Standard Group»	Almaty, Nazarbayev ave., 103, office 707.
1	EEF «Standard Group»	Number. 8 701 712 4827
		e-mail: sapabek@sgl.kz
2	LLP «Trud i bezopasnost»	Almaty, 8 microdistrict, 2 84a
2	LLF «Trud i dezopasilost»	number 303 94 14
		Section and the section of the secti
3	Republican Center for	e-mail: Ot tb1@mail.ru Almaty, Baizakov st. 300.
3	Advanced Studies on	
	Emergencies	e-mail:kursy@mail.ru No. 8(701 7737 2778
4	Корпус спасателей-	Almaty, Abay ave., 143, office 329
т	волонтеров КЧС МВД РК	e-mail: 191@reskue.kz No: 8 727 270 11 91
5	LLP «Amiran-Agro»	Almaty region., Talgar district.
5	LLI (Allillali-Agio)	number::8(72774)42301,fax:8(727)3074822
		e-mail: amiran almaty@mail.ru
6	LLP «Baiserke-Agro»	Almaty region, Ili district, BaiserkeKonayev st, 1.
U	LLI Whatserke-Agrow	Number.:87019916120, 87018813379
		e-mail: bajserke-agro.all.biz
7	CE «Mamed»	Almaty region., Karasai districe.
,	OD Wiviamod//	Number.:8(727)3728617, 87016664751
		e-mail: kalit50@mail.ru
8	LLP SPC «Agricultural	050005, Almaty, Raiymbek ave. 312,
0	Engineering»	Number.:8(727)2479600; fax:8(727)2479607
	Engineering"	e-mail: kazniimech@yandex.kz
9	TOO	0500000 Almaty, Dosmukhamedov st. 11/32
	«Engineering innovation A-A»	Number.:8(327)3174061; fax: 8(727)2380721
		e-mail: isi-aa@mail.ru
10	TOO «Almaz-trans»	010000 Almaty, Radastovets st.120
	100 Milliaz trailon	Number.: 8(7272)961313

РЕЦЕНЗИЯ

на образовательную программу по подготовке бакалавров 6В11201-«Безопасность жизнедеятельности и защита окружающей среды» кафедры «Аграрная техника и машиностроение»

КазНАИУ

Представленная образовательная программа разработана в соответствии с требованиями Закона Республики Казахстан «Об образовании» по состоянию на 01.01.2020г.; Государственного общеобязательного стандарта высшего и послевузовского образования от 31 декабря 2018 года № 604; Классификатора направлений подготовки кадров с высшим и послевузовским образованием № 569 13.10.2018 г; типовых правил деятельности организаций образования, реализущих образовательные программы высшего и (или) послевузовского образования, МОН РК от 30 октября 2018 года № 595; правил организации учебного процесса по кредитной технологии обучения от 12 октября 2018 года; профессиональных стандартов «Охрана труда», приложение №26 от 18.12.2019 г.№255; «Аварий по - восстановительные работы», приложение №16 от 27.12.2019г.

№2566 и «Валидация и верификация выбросов парниковых газов», приложение №1 от30.12.2019 г. №270. К приказам Заместителя Председателя Правления Национальной палаты предпринимателей Республики Казахстана «Атамекен».

Программа содержит цели и задачи, направленные на освоение основного вида профессиональной деятельности и соответствующих профессиональной компетенций.

Кроме того, в содержание представленной образовательной программы включены требования к квалификации выпускника, форме и срокам обучения, описаны направления подготовки и профессиональной компетенций, а также область, виды и объекты профессиональной деятельности специалиста.

По рекомендации работодателей в рабочий учебный план образовательной программы внесены дисциплины:

- 1. Основы радиационной безопасности.
- 2. Методы и средства контроля и маниторинга техносферы, которые формируют дополнительные профессиональные компетенции, необходимые специалистам.

Можно отметить тщательно проработанный вопрос по составлению требований к результатам обучения.

В рецензируемом варианте образовательной программы изучаемые дисциплины сгруппированы ПО признакам приобретаемых студентами профессиональных компетенций в 9 модулей. Подробно описаны знания, профессиональные умения и навыки, приобретаемые будущими специалистами. Необходимо отметить выдержанную последовательность изучения дисциплин с соблюдением пре- и постреквизитности. Траектории подготовки студентов выбраны разработчиками с учетом мнений работодателей, высказанных ранее по предыдущим программам, в которых основной акцент делался на подготовку специалистов по ЧС, в ущерб знаний по производственной безопасности и инженерная защита окружающей среды. Кроме того, в рассматриваемой программе разработчикам удалось избежать повторов дисциплин по содержанию, введением нескольких новых дисциплин.

В целом, рецензуемая образовательная программа 6В11201 - «Безопасность жизнедеятельности и защита окружающей среды» отвечает основным требованиям и программа рекомендуется к использованию в образовательном процессе.

ТОО «АвтоГазАлматы» Риспублика И.о.генерального директора вы калество и верктеми образования в подарищество годарищество годари го

Ж. Алимбаев

ОТЗЫВ

на образовательную программу "6В11201 - Безопасность жизнедеятельности и защита окружающей среды"

ОП "6В11201 - Безопасность жизнедеятельности и защита окружающей среды" имеет практико-ориентированный характер, реализуется в тесном сотрудничестве с работодателями. Работодатели активно вовлечены в процесс формирования дисциплин обязательной части ОП, определения заданий практики и тем дипломных работ.

Развитие безопасности жизнедеятельности и защита окружающей среды имеет большое значение для окружающей среды – это современная образовательная программа для подготовки специалистов-инженеров по разработке, реализации и контроле проектов, программ, технических решений и мероприятий по пожарной, промышленной, экологической, химической, радиационный, биологической и др.видам безопасности; безопасности и охраны труда, организации гражданской защиты, обеспечения безопасности от экологических факторов и опасных факторов энергетической системы предприятия и применить на практике навыки по оказанию первой медицинской помощи пострадавшим при чрезвычайных ситуациях для снижения потери населения и персонала объектов экономики; выстаривать личную образовательную траекторию в течение всей жизни для саморазвития и карьерного роста, ориентироваться на здоровый образ жизни для обеспечения полноценный социальной и профессиональный деятельности посредством методов и средств физической культуры. Сегодня специалисты-безопасности и охраны труда являются наиболее востребованными и перспективными как в Республике Казахстан, так и за рубежом.

Цели ОП "6В11201 - Безопасность жизнедеятельности и защита окружающей среды" сформированы с акцентом на студентоцентрированноое обучение, направлены на удовлетворение потребностей студента, предоставление гибких траекторийй обучения, стимулируют студента к занятию научной работой и к активной роли в учебном процессе.

ОП "6В11201 - Безопасность жизнедеятельности и защита окружающей среды" реализуется по модульно-кредитной технологии в соответствии с требованиями ГОСО высшего образования. В учебный план включены дисциплины по предложению работодателей — Безопасность техники и технологии; Основы радиационной, химической и биологической безопасности; Организация и ведение гражданской обороны; Аварийно-спасательное дело; Чрезвычайные ситуации социального характера и защита населения.

Практики студентов проводятся на основе договоров с предприятиями в сфере безопасности. Элективные курсы ОП отражают современные достижения науки.

Ключевыми компетенциями выпускника образовательной программы являются умение планировать и выполнять научную работу; владение прогрессивными технологиями, современными методами охраны труда, пожарной безопасности, экологической безопасности, организации гражданской защиты и др.

Таким образом, из вышеизложенного считаю, что модульная образовательная программа "6В11201-Безопасность жизнедеятельности и защита окружающей среды" соответствует требованиям подготовки специалистов для промышленности, лабораторий, научно-исследовательских и образовательных учреждений.

Директор ТОО «TASH»

К.Шахан

РЕЦЕНЗИЯ

на образовательную программу по подготовке бакалавров 6В11201-«Безопасность жизнедеятельности и защита окружающей среды» кафедры «Аграрная техника и технология»

КазНАИУ

Представленная образовательная программа 6В11201 - «Безопасность жизнедеятельности и защита окружающей среды» разработана на основе Государственного общеобразовательного стандарта высшего образования.

Основными целью и задачами образовательной программы по специальности 6В11201 - «Безопасность жизнедеятельности и защита окружающей среды» является подготовка востребованных специалистов, с соответствующими профессиональными знаниями и практическими навыками по своим уровням, способных принимать решения для устранения и предупреждения неблагоприятных ситуаций.

В программе определены цели и задачи, направленные на освоение основного вида профессиональной деятельности и соответствующих профессиональных компетенции.

Кроме того, в содержание представленной образовательной программы включены требования к квалификации выпускника, форме и срокам обучения, описаны направления подготовки и профессиональной компетенций, а также область, виды и объекты профессиональной деятельности специалиста.

По рекомендации работодателей в рабочий учебный план образовательной программы внесены дисциплины:

- 1. Пожарная безопасность.
- 2. Управление защитой и персоналом при чрезвычайных ситуациях, которые формируют дополнительные профессиональные компетенции, необходимые специалистам.

Можно отметить тщательно проработанный вопрос по составлению требований к результатам обучения.

В рецензируемом варианте образовательной программы изучаемые дисциплины сгруппированы по признакам приобретаемых студентами профессиональных компетенций в 9 модулей. Подробно описаны знания, профессиональные умения и навыки, приобретаемые будущими специалистами. Необходимо отметить выдержанную последовательность изучения дисциплин с соблюдением пре- и постреквизитности. Траектории подготовки студентов выбраны разработчиками с учетом мнений работодателей, высказанных ранее по предыдущим программам, в которых основной акцент делался на подготовку специалистов по ЧС, в ущерб знаний по производственной безопасности и инженерная защита окружающей среды. Кроме того, в рассматриваемой программе разработчикам удалось избежать повторов дисциплин по содержанию, введением нескольких новых дисциплин.

В целом, рецензуемая образовательная программа 6В11201 «Безопасность жизнедеятельности и защита окружающей среды» отвечает основным требованиям и программа рекомендуется к использованию в образовательном процессе.

ҚР ТЖ «Казселденқорғау» ММ басшысы

Е.Садырбаев

«ҚАЗАҚ ҰЛТТЫҚ АГРАРЛЫҚ ЗЕРТТЕУ УНИВЕРСИТЕТІ» коммерциялық емес акционерлік қоғамы

ИНЖЕНЕРЛІК-ТЕХНИКАЛЫҚ ФАКУЛЬТЕТІ

№6 ХАТТАМА КӨШІРМЕСІ

Алматы қаласы

17 қаңтар 2024 ж.

«Аграрлық техника және технологиялар »кафедрасының отырысы

Төраға - Жумагулов Ж.Б. Хатшы - Дюсенбиева А.Х. Қатысқандар: 14 адам

КҮН ТӘРТІБІ:

4. 2024 – 2026 оқу жылдарына арналған 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламаларын талқылау.

3. ТЫҢДАЛҒАН:

1. Жумагулов Ж.Б. – кафедра меңгерушісі. 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасымен таныстырды. Бұл бағдарламаны өндірістен жұмыс берушілермен бірігіп жасалғанын атап өтті. Арамызда өндірістен «Казселденқорғау» МК Төтенше жағдайды ескерту бөлімінің бас инженер-гидрологі Бостаева А.К. отырғанын айтып онымен таныстырды. 2024 – 2026 оқу жылдарына арналған білім беру бағдарламасын талқылауға ұсынды.

СӨЗ СӨЙЛЕГЕНДЕР:

- 1. Дюсенбиева А.Х. аға оқытушы, 7М11201 «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» жұмыс оқу жоспары және бадарламалары жөніндегі комитет мүшесі. Білім беру бағдарламасында қолдану саласы және паспорты келтірілген. Паспортында: мақсаты, оқу нәтижелері, біліктілік пен лауазымдар тізімі, саласы, объектісі, пәні, кәсіби қызметтің функциялары мен түрлері және маманның негізгі құзыреттері көрсетілген.
- 2. Бостаева А.К. «Казселденқорғау» МК Төтенше жағдайды ескерту бөлімінің бас инженер-гидрологі 7М11201 «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» магистратураға арналған білім беру бағдарламасы жоғары білікті мамандарды даярлауға бағытталған. Оның артықшылықтары кеңейтілген ғылыми-зерттеу мүмкіндіктерін, заманауи технологияларды қолдануды және пәнаралық көзқарасты қамтиды, бұл түлектерге қауіпсіздік саласындағы күрделі мәселелерді шешуге мүмкіндік береді. Сонымен қатар, бағдарлама магистранттарға ғылыми-зерттеу дағдыларын дамытуға және кәсіби өсуді қамтамасыз етуге бағытталған. Жалпы алғанда, бұл бағдарлама

тіршілік қауіпсіздігі саласында жоғары деңгейдегі мамандарды даярлауға үлкен мүмкіндік береді.

3. Жолдасова А.У. - 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасы бойынша бітірген түлегімін. Білім беру бағдарламасы өте дұрыс жасалған деп ойлаймын.

ҚАУЛЫ ЕТТІ

1. 2024 – 2026 оқу жылдарына арналған 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасының оқу жоспары «Инженерлік-техникалық» факультетінің академиялық комитетіне талқылауға ұсынылсын.

Төраға

Жумагулов Ж.Б. Дюсенбиева А.Х.

Хатшы

«Қазақ ұлттық аграрлық зерттеу университеті» коммерциялық емес акционерлік қоғамы «Инженерлік-техникалық» факультеті

№6 ХАТТАМАСЫНАН КӨШІРМЕ

« 26 » қаңтар 2024 ж

Алматы қаласы

«Инженерлік-техникалық» факультетінің Академиялық комитетінің кеңейтілген отырысы.

Факультет бойынша білім беру бағдарламаларының мазмұнын талқылау.

Төраға: Ибишев У.Ш. Хатшы: Дюсенбиева А.Х.

Қатысқандар: Академиялық комитет мүшелері (кафедра меңгерушілері, жұмыс берушілер өкілдері, білім беру бағдарламаларын құрастыруға жауаптылар, түлектер, студенттер) барлығы 25 адам (тізімі қоса тіркелді).

КҮН ТӘРТІБІ:

1. 2024-2026 жылдарына арналған білім беру бағдарламаларын талқылау және оларды қарастыру үшін университеттің оқу-әдістемелік Кеңесіне ұсыну туралы.

тындалды:

Факультетің академиялық комитет төрағасы Ибишев Өмірбай Шәрібекұлы күн тәртібіндегі үш деңгейдегі барлық білім беру бағдарламаларын мазмұнын талқылау бойынша «Бакалавриат», «Магистратура», «Докторантура» деңгейлерінің білім беру бағдарламаларындағы өзгерістер мен оларға қойылатын талаптарды айтып жеткізді. Осыған байланысты кафедралар өздеріне бекітілген білім беру бағдарламаларының мазмұнымен таныстыруын және қатысушылар талқылауға белсенді атсалысып, өз ұсыныстарын ашық білдіруді сұрады. «Аграрлық техника және механикалық инженерия» кафедрасының ұжымымен дайындалған 2024-2026 оқу жылдарына арналған 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасын арнайы талқылауды ұсынды. Сөз кезегі Академиялық комитет мүшесі «Аграрлық техника және механикалық инженерия» кафедрасының аға оқытушысы А.Дюсенбиеваға берілді.

СӨЗ СӨЙЛЕГЕНДЕР:

1. «Аграрлық техника және механикалық инженерия» кафедрасының аға оқытушысы, Академиялық комитет мүшесі Дюсенбиева Акерке Хамзаевна қарастырылып отырған 2024-2026 оқу жылдарына арналған 7М11201 — «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасына Қазақстан Республикасы Ғылым және жоғары білім министрінің 2022 жылғы 20 шілдедегі №2 бұйрығы негізінде Жоғары және жоғары оқу орнынан кейінгі білім берудің мемлекеттік жалпыға міндетті стандартының жаңартылуына байланысты

Қазақстан Республикасы экономикасының көлік секторы еңбек нарығының сұраныстарының талаптарына сай өзгерістер енгізілгенін атап өтті. Білім беру бағдарламасын құрастыру барысында жұмыс беруші: «Казселденқорғау» ММ Төтенше жағдайды ескерту бөлімінің бас инженер-гидрологі Бостаева А.К. сонымен қатар осы білім беру бағдарламасы бойынша түлек А.Жолдасова атсалысқанын, сондай-ақ олардың талаптары мен тілектерінің ескерілгенін айтты. 7М11201 — «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасына «Казселденқорғау» ММ Төтенше жағдайды ескерту бөлімінің бас инженер-гидрологі Бостаева А.К. оң пікір берген.

Дюсенбиева А.Х. ұсынылып отырған білім беру бағдарламасының талаптарға сай дайындалғанын айта келіп, факультет Кеңесінде қарастыруға ұсыныс жасады.

2. 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі»білім беру бағдарламасын құрастыруға жауапты, Академиялық комитет мүшесі, аға оқытушы А.Дюсенбиева қарастырылып отырған 2024-2026 оқу жылдарына арналған 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасында қолдану саласы және паспорты келтірілгенін, паспортында: мақсаты, оқу нәтижелері, біліктілік пен лауазымдар тізімі, саласы, объектісі, пәні, кәсіби қызметтің функциялары мен түрлері және маманның негізгі құзыреттері көрсетілгенін айтты. 7М11201 – «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» магистратура бағдарламасы ҚР Төтенше жағдайдың түрлі салаларында өндірістік, басқарушылық, педагогикалық, ғылыми ізденістік, эксперименттік және конструкторлық қызметте бәсекеге төзімді қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі мамандарын даярлауға бағытталған. Осы білім бағдарламасын меңгеру қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі облысында заманауи еңбек жағдайына бейімделуге, белсенді маман дайындауға үлкен мүмкіндік береді. Сонымен қатар, бағдарлама магистранттарға ғылыми-зерттеу дағдыларын дамытуға және кәсіби өсуді қамтамасыз етуге бағытталған. Жалпы алғанда, бұл бағдарлама қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі саласында жоғары деңгейдегі мамандарды даярлауға үлкен мүмкіндік беретінін айта келіп, ұсынысты толық қолдайтынын айтты.

Академикалық комитет мүшелері түскен ұсынысты бірауыздан қолдап, университеттің оқу-әдістемелік Кеңесіне ұсынды.

КАУЛЫ ЕТТІ:

«Аграрлық техника және механикалық инженерия» кафедрасының ұжымымен дайындалған 2024-2026 оқу жылдарына арналған 7М11201 — «Қоршаған ортаны қорғау және өміртіршілік қауіпсіздігі» білім беру бағдарламасы қарастыру үшін университеттің оқу-әдістемелік Кеңесіне ұсынылсын.

Төраға Хатшы

Ибишев Ө. Дюсенбиева А.Х.

Хаттама көшірмесін растаймын:

Дюсенбиева А.Х.