MINISTRY OF SCIENCES AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN M.O. AUEZOV SOUTH KAZAKHSTAN UNIVERSITY

Acting Chairman of the Board-Rector K. Nurmanbetov

EDUCATIONAL PROGRAM

6B07261 – «Innovative textiles, design and decor»

Registration Number	6B0700207
Code and Classification of Education	6B07- Engineering, manufacturing and
a second second	construction industries
Code and Classification of Areas of	6B072- Manufacturing and processing industries
Training	
Group of educational programs (EP)	B070- Textiles: clothing, footwear and leather
the second se	goods
Type of EP	current
ISCE level	6
NQF level	6
IQF level	6
Language learning	English
The complexity of EP	240 credits
Distinctive features of EP	-
Partner University (JEP) -	-
University partner (DDEP) -	-

Developers:

Name	Position	Sign
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Togataev T.	associate Professor, candidate sciences	Gueleun
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Kaldybaeva G.	master, senior lecturer	alaelle
Asanov E.	master, lecturer	ale
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Ibraev Zh.M.	Group JT-21-8k	Sol Contraction
Kubey A.	Group JT-21-8k	
Asanuly A.	Group JT-22-4k	CAT-
Karakulov N.S.	Director of «Bal decor LLP»	
Iskhakhov T. Zh.	Director of «Bal Textile LLP»	БУАПКЕРЦ
'Baynurov A.	Director of «TEXTILE GROUP KZ LLP»	Added to Bo C OF
Kanzharbayuly Sh.	Director of Shymkent-Cashemir LLP	Mar Son
Duisenbaev M.T.	Director of NVP Talapty LLP	B 6

The EP was considered at a meeting of the Academic Quality Committee of the Textile and food engineering the Higher School, Minutes $\#_{2}$

Chairman of the Committee ______ Khanzharov N.

The EP was considered and recommended for approval at Educationalmethodical meeting of M. Auezov SKU Minutes $\frac{\# \, y}{\sqrt{2}} = \frac{202}{202} 4 y_{.}$

📃 K. Sarykulov Chairman of the UMS

The EP was approved by the decision of the Academic Council of the University. Minutes $\frac{\# 10}{3} \approx \frac{2024 \text{ y}}{2024 \text{ y}}$.

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1. CONCEPT OF THE PROGRAM

Mission of the	We are focused on generating new competencies, training a leader	
University	who translates research thinking and culture.	
University Values	– Openness - open to change, innovation and cooperation.	
	- Creativity - generates ideas, develops them and turns them into	
	values	
	 Academic freedom - free to choose, develop and act. 	
	– Partnership - creates trust and support in a relationship where	
	everyone wins.	
	– Social responsibility - ready to fulfill obligations, make	
	decisions and be responsible for their results.	
Graduate Model	– Deep subject knowledge, their application and continuous	
Gruduite Moter	expansion in professional activity	
	 Information and digital literacy and mobility Research skills, creativity and emotional intelligence 	
	- Research skills, creativity and emotional intelligence	
	– Entrepreneurship, independence and responsibility for their	
	activities and well-being	
	– Global and national citizenship, tolerance to cultures and	
	languages	
Uniqueness of the EP	• Orientation to the regional labor market and social order	
	through the formation of professional competencies of the	
	graduate, adjusted to the requirements of stakeholders	
	• Practical orientation and emphasis on the development of	
	critical thinking and entrepreneurship, the formation of a wide	
	range of skills that will allow to be functionally literate and	
	competitive in any life situation and be in demand in the labor	
	market	
Academic Integrity	The university has taken measures to maintain academic integrity	
and Ethics Policy	and academic freedom, protection from any type of intolerance	
	and discrimination:	
	• Rules of academic integrity (order No. 212 of October 10,	
	2022);	
	• Anti-corruption standard (order No. 221 n/a dated 12/07/2021).	
	• Code of Ethics (Order No. 212 of October 10, 2022)	
Regulatory and legal	1.Law of the Republic of Kazakhstan "On Education";	
framework for the	2. Model rules for the activities of educational organizations	
development of EP	implementing educational programs of higher and (or)	
-	postgraduate education, approved by order of the Ministry of	
	Education and Science of the Republic of Kazakhstan dated	
	October 30, 2018 No. 595 with amendments and additions dated	
	December 29, 2021. No. 614	
	3. Standard rules for admission to training in educational	
	organizations implementing educational programs of higher and	
L		

	postgraduate education, approved by order of the Ministry of	
	Education and Science of the Republic of Kazakhstan dated	
	October 31, 2018 No. 600 with amendments and additions dated	
	06/02/2023. No. 252 A State mandatory standards for higher and postgraduate	
	4. State mandatory standards for higher and postgraduate	
	education, approved by order of the Ministry of Education and	
	Science of July 20, 2022 No. 2;	
	5. Rules for organizing the educational process in credit	
	technology of education, approved by order of the Ministry of	
	Education and Science of the Republic of Kazakhstan dated April	
	20, 2011 No. 152; with changes and additions from 09/23/2022.	
	No. 79	
	6. Qualification reference book for positions of managers,	
	specialists and other employees, approved by order of the Minister of Labor and Social Protection of the Population of the	
	Minister of Labor and Social Protection of the Population of the Population of Kazakhstan dated December 30, 2020 No. 553	
	Republic of Kazakhstan dated December 30, 2020 No. 553.	
	7. Methodological recommendations for introducing ECTS	
	principles into the educational process and expanding academic freedom. Appendix to the order of the Minister of Science and	
	freedom. Appendix to the order of the Minister of Science and	
	Higher Education. of the Republic of Kazakhstan dated February	
	12, 2024 No. 57	
	8. Guidelines for the development of educational programs for	
	higher and postgraduate education, Appendix 1 to the order of the	
	Director of the National Center for the Development of Higher	
	Education of the Ministry of Education and Science of the	
	Republic of Kazakhstan dated May 4, 2023 No. 601 n/k	
Organization of the	- Implementation of the principles of the Bologna Process	
educational process	- Student-centered learning	
	– Availability	
	– Inclusivity	
Quality assurance of	– Internal quality assurance system	
EP	 Involvement of stakeholders in the development of the EP and 	
	its evaluation	
	 Systematic monitoring 	
	 Updating the content (updating) 	
Requirements for		
applicants	They are established in accordance with the Standard Rules for admission to training in educational organizations implementing	
"PPncunus	educational programs of higher and postgraduate education by	
	order of the Ministry of Education and Science of the Republic of	
	Kazakhstan No. 600 dated October 31, 2018, with changes and additions dated June 2, 2023. No. 252	
Conditions for the	For students with SEN (special educational needs) and	
	persons with disabilities (PSI), tactile PVC tiles, specially	
implementation of educational	equipped toilets, a mnemonic diagram, and shower bars have	
euucationai	equipped tonets, a minemonic diagram, and shower bars have	

programs (EP) for	been installed in educational buildings and student dormitories.	
persons with	Special parking spaces have been created. Crawler lift installed.	
disabilities and	There are desks for people with limited mobility (PLM), signs	
special educational	indicating the direction of movement, ramps. In the educational	
needs (SSN)	buildings (main building, building No. 8) there are 2 rooms with	
	six working places adapted for users with disorders of the	
	musculoskeletal system (DMS). For visually impaired users, the	
	SARA TM CE Machine (2 pcs.) is available for scanning and	
	reading books. The library website is adapted for the visually	
	impaired. There is a special NVDA audio program with a service.	
	The JIC website http://lib.ukgu.kz/ is open 24/7.	
	An individual differentiated approach is provided for all	
	types of classes and in the organization of the educational	
	process.	

2. PASSPORT of the Educational program

Purpose of the EP	Preparation of highly qualified bachelors with the necessary	
	professional and personal competencies, a competitive level of	
	knowledge, skills and professional skills in the field of design,	
	decoration of textile materials and products.	
Tasks of the EP	- formation of knowledge and skills in the field of entrepreneurship,	
	business development in the technology of production of textile	
	materials and products;	
	- providing them with lifelong learning skills that will enable them	
	to successfully adapt to changing conditions throughout their	
	professional careers;	
	- creating conditions for students to acquire a high general	
	intellectual level of development, mastering competent and	
	developed speech, culture of thinking and skills of scientific	
	organization of work in the textile industry;	
	-the formation of professional competencies in the field of design	
	and decoration of textile materials and products, to ensure the	
	possibility of their employment in the specialty or continuing	
	education at subsequent levels of education.	
	-Establishing conditions for the development of in-demand	
	knowledge and skills, as well as a conscious attitude towards	
	enhancing the welfare of society and conserving the planet within	
	the framework of the SDGs	
Harmonization of EP	• 6th level of the National Qualifications Framework of the Republic	
L	of Kazakhstan; • Dublin descriptors of the 6th level of qualification;	
	• 1 cycle of a Framework for Qualification of the European Higher	
	Education Area);	
	• 6 th Level of European Qualification Framework for Lifelong	
	Learning).	
Connection of EP	The industry qualifications framework in "Light Industry" was	
with the	approved by the minutes of the meeting of the industry commissions	
professional sphere	on social partnership and regulation of social and labor relations for	
	the mining and metallurgical, chemical, construction and	
	woodworking industries, light industry and mechanical engineering	
	dated August 16, 2016 No. 1.	
	1. Professional standard "Forensic commodity research of non-food	
	products", Minister of Justice of the Republic of Kazakhstan dated	
	December 23, 2024 No. 60.	
	2. Professional standard "Forensic examination of fibrous materials	
	and products made of them", Minister of Justice of the Republic of	
	Kazakhstan dated January 23, 2024 No. 60.	
	3. The professional standard "Specialist in the design of textiles and	
	clothing" was approved by the order of the Ministry of Labor and	

	Social Protection of the Dussian Enderstion (prepared by the	
	Social Protection of the Russian Federation (prepared by the Ministry of Labor of Puscie No. 151n dated March 21, 2022)	
Nome of the desired	Ministry of Labor of Russia No. 151n dated March 21, 2022)	
Name of the degree	After the successful completion of this EP, the graduate is awarded	
awarded	«Bachelor of Engineering and Technology» 6B07261 – «Innovative	
T 's 4 s P	textiles, design and decor»	
List of	According to EP6B07261 – «Innovative textiles, design and decor»,	
qualifications and	they can hold primary positions of technologist, engineer, specialist	
positions	in research institutions, design and design organizations, without	
	presenting requirements for work experience in accordance with the	
	qualification requirements. The qualification directory of positions	
	of managers, specialists and other employees approved by the order	
	of the Minister of Labor and Social Protection of the Population of	
	the Republic of Kazakhstan dated December 30, 2020 No. 553.	
Field of	The field of professional activity is the textile industry (in the field	
professional	of design and production of textile products; in the field of research;	
activity	in the field of standardization, certification and quality management,	
	technical expertise).	
Objects of	- branches of the textile complex and processing industries, research	
professional	organizations, firms of various forms of ownership, factories or	
activity	textile enterprises, as well as control and production laboratories,	
	regulatory and technical documentation.	
Subjects of	- textile materials and products, knitted fabrics, natural and artificial	
professional	leather, fur, non-woven and shoe materials;	
activity	- technological equipment for textile production;	
	- design and technical documentation of textile production;	
	- normative and technical documentation and systems of	
	standardization, certification of textile production;	
Types of	- production and management of existing technological processes of	
professional	production of yarn and yarns, fabrics, knitwear, nonwovens;	
activity	operation and repair of technological equipment and automation of	
	technological processes of production;	
	- project-implementation of complex design projects, products and	
	systems, subject and information complexes based on the	
	methodology of introduction of design and artistic activities;	
	knowledge of technologies for manufacturing design objects and	
	layout design; knowledge of methods of ergonomics and	
	anthropometry.	
	-information technology knowledge of the basics of industrial	
	production; knowledge of modern information technologies for	
	creating graphic images, project documentation, computer	
	modeling;	
	-theoretical and experimental research in the field of production	
	technology of fabrics and knitwear using modern methods of	
	experiment planning.	

I corning outcomes	I 01 Communicate freely in the professional environment and
Learning outcomes	LO1. Communicate freely in the professional environment and society in Kazakh, Russian and English, taking into account the
	principles of academic writing and the culture of academic honesty.
	LO2. Demonstrate socio-cultural, professional development
	based on the formation of ideological, civic, spiritual and social –
	economic responsibility, methods of scientific and experimental
	research.
	LO3. Possess information, computer and digital literacy,
	generalization, analysis and perception of information, setting goals
	and choosing ways to achieve it
	LO4. Develop textile fabric compositions, define criteria and
	indicators of artistic and design proposals when working with
	materials and products
	LO5. To offer design solutions for the design of textile
	materials and products, and to give their economic justification
	taking into account materials, construction, technology, engineering
	systems.
	LO6. To analyze and evaluate the physico-mechanical and
	hygienic consumer properties of textile materials and products, as
	well as the causes of defects and defects, we conduct a forensic
	commodity examination using modern testing devices and
	equipment.
	LO7. Demonstrate spatial imagination, artistic taste, mastery of
	methods of modeling and coloring of textile materials.
	LO8. Apply modern innovative technologies and methods of
	processing competitive textile materials and products.
	LO9. To carry out engineering monitoring and adjustment of
	technological lines for the production of high-quality materials and
	products
	LO10. Study scientific and technical information, domestic and
	foreign experience, participate in research on improving
	technological processes and equipment, apply the results obtained in
	practice.
	LO11. To use research, entrepreneurial skills in professional
	activities.
	LO12. Demonstrate the ability to self-education and self-
	education, healthy lifestyle throughout life, work individually and in
	a team.

3. COMPETENCES OF EP GRADUATE

GENERAL COMPETENCIES (SOFTS	· · · · · ·
qualit	ies
GC 1. Competence in managing your	GC1.1. The ability to self-study, self-
literacy	develop and constantly update their
	knowledge within the chosen trajectory
	and in an interdisciplinary environment.
	GC1.2. The ability to express thoughts,
	feelings, facts and opinions in the
	professional sphere.
	GC1.3. The ability to mobility in the
	modern world and critical thinking.
GC2. Language competence	GC2.1. Ability to build communication
	programs in the state, Russian and
	foreign languages.
	GC2.2. The ability to interpersonal
	social and professional communication
	in the conditions of intercultural
	communication.
GC3.Mathematical competence and	GC3.1 The ability and willingness to
competence in the field of science	apply the educational potential,
	experience and personal qualities
	acquired during the study of
	mathematical, natural science, technical
	disciplines at the university to solve
	professional problems.
GC4.Digital competence, technological	•
literacy	develop information literacy through the
	mastery and use of modern information
	and communication technologies in all
	areas of their lives and professional
	activities.
	GC4.2.The ability to use various types of
	information and communication
	technologies: Internet resources, cloud
	and mobile services for the search,

	storage, protection and dissemination of
	information.
GC5.Personal, social and educational	GC5.1.The ability to physical self-
competencies	improvement and orientation to a healthy
	life to ensure full-fledged social and
	professional activities through methods
	and means of physical culture.
	GC5.2.The ability to socio-cultural
	development based on the manifestation
	of citizenship and morality.
	GC5.3. The ability to build a personal
	educational trajectory throughout life for
	self-development, career growth and
	professional success.
	GC5.4. The ability to successfully
	interact in a variety of socio-cultural
	contexts during study, at work, at home
	and at leisure.
GC6. Entrepreneurial competence	GC6.1. The ability to be creative and
OCO. Entrepreneuriar competence	•
	enterprising in different environments. GC6.2. Ability to work in the mode of
	•
	uncertainty and rapid change of task
	conditions, make decisions, allocate
	resources and manage your time.
	GC6.3. Ability to work with consumer
CC7 Cultural avaganage and calf	requests.
GC7. Cultural awareness and self-	GC7.1. The ability to show ideological,
expression	civic and moral positions.
	GC7.2. The ability to be tolerant of the
	traditions and culture of other peoples of
	the world, to possess high spiritual
	qualities.
PROFESSIONAL COMPETENCIES (HA	
Theoretical knowledge and practical skills	PC1.general professional.
specific to this field	-the ability to mutually coordinate
	various means and factors of design,
	integrate various forms of knowledge
	and skills in the development of design
	solutions, coordinate interdisciplinary
	goals, think creatively, initiate
	innovative solutions and perform
	leadership functions in the project
	process. Perform reference samples of
	the design and decor object.
	PC2. Artistic and creative competencies
	· · · · · · · · · · · · · · · · · · ·

- the ability to create a unique creative using your talent, artistic taste and the necessary techniques independently and in co-creation. To carry out the process of design taking into account modern trends in the field of textile design and decor.

PC3.production-technological activities in textile production.

-have an idea of the technology and the production of fibers from natural raw materials, be able to skillfully make technological transitions obtain to natural textile fibers, know the types of materials and equipment used, the types of defects that occur when each process and operation is incorrectly performed; to know the ways of rational use of wool and cotton; have an idea of the new technology and technology in the primary processing of natural fibers.

PC4. efficient usage of raw materials and equipment

-apply mathematical models to optimize the composition of the mixture of fibers in the design of the properties of yarn. Know the stages of designing parameters and spinning technology, methods for designing parameters of individual processes and their combination in production, ensuring the production of yarn of a given quality with good technical and economic indicators.

PC5. management processes and organization in textile production

- to know the structure and operation of modern spinning equipment, technological processes for the production of yarn from natural and chemical fibers, types of yarn defects, their causes and methods of elimination; know the range and purpose of the mélange yarn from natural and chemical fibers, know new ways of managing; have the skills to choose the raw

materials and compile sorts for the production of mélanges yarn.
PC6. information technology
-analyze the causes of occurrence and
eliminate defects in the produced yarn;
develop technological and technical
specifications for the range of produced
yarn; understand the types of automatic
control systems, the usage of robots and
microprocessor technology.
PC7. research activities
-analysis of the state and dynamics of
quality indicators of objects of activity
(raw materials, yarn, fabric, knitwear,
nonwovens, technological processes)
using the necessary methods and means
of research;

	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9	LO 10	LO 11	LO 12
00.1												
CC 1	+											
CC 2		+										
CC 3					+			+	+			
CC 4			+									+
CC 5							+				+	
CC 6							+			+		
PC 1		+				+			+			
PC 2				+	+		+					
PC 3				+		+	+					
PC 4			+		+			+				
PC 4 PC 5			+				+				+	
PC 6				+		+				+		+

3.1 Matrix of correlation of EP learning outcomes in general with modules formed by competencies

4. MATRIX OF THE INFLUENCE OF DISCIPLINES ON THE FORMATION OF LEARNING OUTCOMES AND INFORMATION ABOUT LABOR INTENSITY

N⁰	Module	Cycle	UC/OC	Component	Brief course description	Number				Gene	erate	d leai	nin	g out	comes	(codes	s)	
	name			Name		of credits	LO 1	LO 2	LO 3	BLO 4	LO 5	LO 6	LO 7	LO 8	LO 9	LO 10	LO 11	LO 12
1	Module of the social science	GED	OC	History of Kazakhstan	The purpose: Of the discipline isformation of an objective idea of the history of Kazakhstan based on a deep understanding and scientific analysis of the main stages, patterns and originality of the historical development of Kazakhstan. Contents: Ancient people and the formation of nomadic civilization. Turkic civilization and the great steppe. Kazakh Khanate. Kazakhstan in the era of modern times. Kazakhstan as part of the Soviet administrative-command system. Declaration of Independence of Kazakhstan. State system, socio-political development, foreign policy and international relations of the Republic of Kazakhstan. Methods and techniques of historical description for the analysis of the causes and consequences of events in the history of Kazakhstan.			v										v
		GED	OC	Philosophy	The purpose: Of a holistic idea among students about philosophy as a special form of knowledge of the world, about its main sections, problems and methods of studying them in the context of future professional activity. And the formation of philosophical reflection, introspection and moral self-regulation among students. Contents: Emergence of a culture of thinking.													v

				Subject and method of philosophy. Fundamentals of philosophical understanding of the world: questions of consciousness, spirit and language. Being. Ontology and metaphysics. Cognition and creativity. Education, science, technology and technology. Human philosophy and the world of values. Ethics. Philosophy of values. The subject of aesthetics as a field of philosophical knowledge. Philosophy of freedom. Philosophy of art. Society and culture. Philosophy of history. Philosophy of religion. "Mangilik El" and "Modernization of Public Consciousness" are a new Kazakhstan philosophy					
Module of Socio- political Knowledge	GED	OC		The purpose: Of forming knowledge about social and political activities, explaining social and political processes and phenomena. Contents: Consideration of the system of socio-ethical values of the society. Ways to use social, political, cultural, psychological institutions, features of youth policy in the modernization of Kazakhstani society and solve conflict situations in society and professional environment based on them. To study the methods of analysis and interpretation of political institutions and processes, ideas about politics, power, state and civil society, to understand and use the methods and methods of sociological, comparative analysis, to understand the meaning and content of the political situation in the modern world. Analysis and classification of the main political institutions.					v
	GED	OC	and Psychology	The purpose: Formation of scientific knowledge of history, modern trends, current problems and methods for the development of culture and psychology, the skills of a systematic analysis of psychological phenomena.					v

Module of Socio-ethnic Developme nt	GED	HSC	Ecosystem and Law	Contents: Morphology, language, semiotics, anatomy of culture. Culture of nomads, proto- Turks, Turks. Medieval culture of Central Asia. Kazakh culture at the turn of the XVIII - XIX centuries, XX century. Cultural policy of Kazakhstan. State Program "Cultural Heritage". National consciousness, motivation. Emotions, intellect. The will of man, the psychology of self- regulation. Individual typological features. Values, interests, norms are the spiritual basis. The meaning of life, professional self- determination, health. Communication of the individual and groups. Socio-psychological conflict. Models of behavior in conflict. The purpose: Formation of integrated knowledge in the field of economics, law, anti- corruption culture, ecology and life safety, entrepreneurship, scientific research methods. Contents: Fundamentals of safe human-nature interaction, ecosystem and biosphere productivity. The entrepreneurial activity of society in conditions of limited resources, increasing the competitiveness of business and the national economy. Regulation of relations in the field of ecology and human life safety. Knowledge and compliance of Kazakhstan's law, obligations and guarantees of subjects, state regulation of public relations to ensure social progress. Application of scientific research methods. The purpose: Discipline is to study personal	5	v			v
				and family financial resources, which are critical to achieving financial well-being. Contents: Financial planning and consumer safety. Basic methods and techniques for effective spending and saving money. Protecting	2	•			v

			and investing your own financial resources. The role and significance of personal finance, its capabilities for achieving financial stability. Filtering out a lot of dubious financial information. Incentives for independent management of responsibilities and optimal financial capabilities of the consumer. Making smart financial decisions when building a professional career.						
BD	EC	Abay Studies	The purpose: Based on the creativity of A. Kunanbayev, the preservation of the «national code» and in the project «Kazakhtanu». Contents: historical overview of the history of Kazakhstan and Kazakh literature of the XIX-XX centuries. Studies of Abai's legacy of the XX- XXI century. Chronology of Abai's creativity. Abai is a great poet, ethnographer, founder of Kazakh written literature. Abai is the compiler of the code of laws «The Position of Karamola», social significance. Abai is a thinker, religious scholar, and philosopher. The role of Abai in education and science, the concept of a «Holistic person». «Words of Edification» by Abai, an epic novel by M. Auyezova «The Way of Abai». K. Tokayev «Abai and Kazakhstan in the XXI century», role, significance.		V				V
BD	EC	Mukhtar Studies	The purpose: Formation of a historical, literary idea of M. Auezov's work in the context of literary history, patriotism and cultural and spiritual position. Development of artistic thinking, skills of independent research activity. Contents: The life and creative path of M. Auezov Semipalatinsk, Tashkent, St. Petersburg periods. M. Auezov's activity in the magazines «Sholpan», «Abai». M. Auezov's journalism. An artistic review of the short stories "Korgansyzdyn		V				V

			kuni", "Kyr suretteri", "Okagan azamat", "Kokserek", the play Enlik-Kebek and the stories "Kili Zaman", "Karash-Karash" okigasy", the monograph "Abai Kunanbayev", the epic novel "Abai Zholy".				
B	D EC	Service to Society	The purpose: Formation of socially significant skills and competencies in students based on the assimilation of academic programs, carrying out socially useful activities related to the disciplines studied at the university Contents: The concept and meaning of Service learning, the history of the formation and development of the concept of Service Learning. Key components of Service Learning, socially useful activities in the children's and youth environment, organization of volunteer movement in the world and Kazakhstan practice, profile orientation of Service Learning. International practice of learning through socially useful activities. General principles and methodology for the development of social projects. Methods of analysis of implemented social projects.	V			v
B	D EC	Foundations of Anticorruption Culture	The purpose: Formation of an anti-corruption worldview, strong moral foundations of a personality, civic position, stable skills of anti- corruption behavior. Contents: Overcoming legal nihilism, formation of the basics of students' legal culture in the field of anti-corruption legislation. Formation of a conscious perception/attitude towards corruption. Moral rejection of corrupt behavior, corrupt morality and ethics. Development of skills necessary to fight corruption. Development of anti-corruption standards of conduct. Anticorruption propaganda,	v			v

			dissemination of lawfulness and respect for the law. Activities aimed at understanding the nature of corruption, awareness of social damage caused by its manifestation, ability to defend one's position with arguments, seeking ways to overcome manifestation of corruption.						
Module of Communica tion and Physical Education	GED	OC Kazakh (Russian) Language	The purpose: Formation of communicative competence using the Kazakh (Russian) language in the socio-cultural, professional and public life, improvement of the ability to write academic texts. Contents: Levels A1, A2, B1, B2-1, B2-2 (B2, C1 Russian language) are presented in the form of cognitive- linguocultural complexes, consisting of spheres, themes, sub-themes and typical situations of communication of the international standard: social, social - cultural, educational and professional, modeled by forms: oral and written communication, written speech works, listening. Demonstration of understanding of the language material in the texts on the educational program, knowledge of terminology and development of critical thinking.	10	v				
	GED	OC Foreign Language	The purpose: Formation of students' intercultural and communicative competence in the process of foreign language education at a sufficient level A2 and a level of basic sufficiency B1. Student reaches B2level of common European competence if the language level at the start is higher than B1level of common European competence. Contents: Levels A1, A2, B1, B2 are presented in the form of cognitive-linguocultural complexes, consisting of spheres, themes, sub- themes and typical situations of international standard's communication: social, social -	10	v				

				automal advantional and muchanism					1	
				cultural, educational and professional, modeled						
				by forms: oral and written communication,						
				written speech works, listening. Demonstration of						
				language material understands in texts on						
				educational program, knowledge of terminology						
				and critical thinking development.						
	GED	OC	Physical	The purpose: Formation of social and personal	8					v
			Training	competencies and the ability to purposefully use						
				the means and methods of physical culture that						
				ensure the preservation and strengthening of						
				health in preparation for professional activity; to						
				the persistent transfer of physical exertion, neuro						
				psychic stresses and adverse factors in future						
				work.						
				Contents: Implementation of physical culture						
				and health and training programs. A complex of						
				general development and special exercises.						
				Sports (gymnastics, sports and outdoor games,						
				athletics, etc.). Control and self-control during						
				classes, insurance and self-insurance. Refereeing						
				U						
				competitions Means of professionally applied						
				physical training. Modern health-improving						
				systems: the breathing system according to A.						
				Strelnikova, K. Buteyko, K. Dinaiki, joint						
				gymnastics according to Bubnovsky.				_		
	BD	HSC	Professional	The purpose: To provide professionally	3	v				
			Kazakh	oriented language training of a specialist who is						
			(Russian)	able to competently construct communication in						
			Language	professionally significant situations and speak the						
				language norms for special purposes.						
				Content: Professional language and its						
				components. Professional terminology as the						
				main feature of scientific style. Scientific						
				vocabulary and scientific constructions in						
				educational-professional and scientific-						
				professional spheres. Algorithm of work on the			1			
	1			professional spheres. Augorithm of work on the		1	I		 1	

	analysis and production of scientific texts on specialty. Producing scientific and professional texts. Basics of business communication and documentation within the framework of future professional activity.
BI	Professionally The purpose: Lexical and grammatical 3 v Oriented Foreign features of the genre of scientific style and Language presentation in oral written form, the development of foreign technologies in textile production technology. The use of language models for describing structures and systems, definitions, arguments. Performing translation work in the specialty. Business correspondence, lexical and stylistic features of the language. Contents: The teaching of technical terms and expressions by specialization is considered, to understand colloquial speech of medium complexity on technical topics; to use a foreign language in practical classes.
GE	Information and The purpose: Formation of the ability to 5 v v Communication critically evaluate and analyze processes, Technologies (in methods of searching, storing and processing English) information, methods of collecting and transmitting information through digital technologies. Development of new "digital" thinking, acquisition of knowledge and skills of using modern information and communication technologies in various activities Contents: Introduction and architecture of computer systems. Software. Operating systems. Human interaction with computers. Database systems. Database management. Networks and telecommunications. Cyber defense. Internet technologies. Cloud and mobile technologies. Multimedia technologies. Smart technologies. Electronic technologies. Electronic business.

				Electronic control.						
Module of Bases of Natural Mathematic al and Engineering Sciences	BD	ES	Mathematics	The purpose: Elements of linear algebra and analytic geometry are considered. The ability to calculate the limit of a function is developing. Acquisition of knowledge of differential and integral calculus of a function from one variable. Knowledge of the concepts of functions of several variables. Argumentation of the optimal variant of solutions of differential equations. Contents: In the course of studying mathematics, the student will get acquainted with the simplest differential equations, study the basic concepts and theorems of probability theory and learn how to apply them in the theory of mathematical statistics, especially for the purpose of planning an experiment and mathematical processing of the results obtained.	6	v				
	BD	ES	Physics	The purpose: Formation of the basics of scientific thinking, physical concepts and theories among students. To evaluate the degree of reliability of the results of theoretical and experimental studies, plan a physical and technical experiment and process its results using methods of dimension theory, similarity theory and mathematical statistics. Contents: Planning a physical and technical experiment and mastering its results using methods of dimensional theory, similarity theory and mathematical statistics.	5	v v				
	BD	ES	Chemistry	The purpose: Mastering the structure, chemical composition and properties of textile fibers. Knowledge of the structure and properties of artificial and synthetic fibers. The concept of dyes. Contents: Examines the basic laws and concepts of chemistry, the structure of matter and	4	v				v

			atom, types of intra and intermolecular bonds,							
			patterns of chemical reactions, energy and							
			kinetics of chemical processes, solutions and							
			dispersed systems, electrochemical processes.							
			Handle chemical reagents, instruments and							
			equipment, carry out mathematical calculations,							
DD	EC	Theoretical and	plan and conduct the necessary experiment.	1			 		 	
BD	ES			4		v	v			
		Applied	knowledge of the basics of classical mechanics, resistance of materials and structural elements,							
		Mechanics								
			theory of mechanisms and machines, calculation							
			and design of machine parts of the industry							
			equipment and research skills. Contents: General laws of mechanical motion							
			and interaction of material bodies. Methods of							
			calculating elements of machines and equipment							
			for strength, rigidity and stability to ensure their							
			reliable and safe operation. The main tasks and							
			methods of structural, kinematic and force							
			analysis of mechanisms. Performance criteria and							
			calculation of machine parts. Connections of							
DD	FC		machine parts and transmission.		 				 	
BD	ES		The purpose: Formation of a theoretical basis			v	v			
		Parts	for understanding the methods of design and							
			calculation of standard machine parts, skills of							
			calculation practice and testing of parts and							
			assembly units necessary for the development,							
			operation and repair of textile machinery and							
			equipment.							
			Contents: The main criteria for the							
			performance and calculation of machine parts.							
			Details of textile production. Reliability.							
			Selection of materials. Adaptability. Connections					1		
			of machine parts. Types of compounds and their							
			main characteristics. General information about							
			transfers. Contact voltages. Lubricants. Shafts							

				and axles. Sliding and rolling bearings.								
				Couplings.								
	BD	ES	Engineering Computer Graphics	The purpose: Formation knowledge, skills and abilities sufficient to compile engineering and design documentation using AutoCAD. Contents: Projection. Point and straight line. Plane. Axonometric projections. Geometric surfaces and bodies. Basic information on graphic design of drawings. Views, cuts and sections in drawings. Methods of connecting parts. Threaded products. Making sketches of parts. Compilation and design, reading and detailing of assembly drawings and general drawings. Initial setup. Completion and saving images. Building a drawing of a flat figure. Building drawings of parts. Image Editing.	4		V					
				Building a three-dimensional model of an object.								
	BD	ES	Bases of Mathematical Modeling of Technological Processes	The purpose: Formation of students' competencies in the process of forming the ability to navigate the flow of information in the conditions of continuous development of science and technology, to learn how to use computer modeling to explain technological processes. Contents: Mathematical modeling of technological processes of textile production. This module includes static and dynamic models of textile production and consists of scientific, technical, methodological foundations of modeling and optimization of technological processes in the textile industry, contains methods for solving single-criteria and multicriteria problems of optimization of technological processes of textile production.	4	v	V					
]]	BD	ES	Normative and	The purpose: Formation of students' basic	4					v	v	
			Technical Documentation	knowledge in the field of quality assessment and technical quality parameters in the production of								

			Management of Textile Products	and further development of the production of high-quality textile products, criteria for evaluating the effectiveness of their use in the textile industry are considered. To solve the problems of typification and unification of production processes of textile materials, to check the conformity of product quality indicators with the established requirements of regulatory documentation; to consider the types and categories of standards based on the analysis of regulatory and technical documents.							
	BD	ES		knowledge and practical skills in the field of standardization, certification and metrology to solve problems of ensuring the uniformity of measurements and quality control of products services and works in their professional activities. Contents: Objects of standardization, certification and metrology. Legislative and regulatory-technical base of standardization systems, technical regulation, metrology and conformity assessment. General scientific and special methods of standardization. Certification and declaration schemes. Methods and types of measurements. Calculation of measurement errors and uncertainties. The technical basis of metrology. The role of international management systems in improving the competitiveness of enterprises.					V	V	
Module of Bases specialty	BD	ES	Introduction to Specialty	The purpose: Formation of creative, creative thinking and development of professional skills for the development of textile materials. To know the relevance and prospects of using textile materials and products in a market economy; To	3			v			v

			have an idea about your future profession, about the types of textile enterprises and a wide range of textile materials and products. Apply in practice technical means for measuring quality indicators to obtain reliable information about the properties of textile materials and products. Contents: Science and technology: history, modernity, future. The history of the development of the textile industry of the Republic of Kazakhstan and the production of textiles. Classification and structure of fibers. Critically analyze the current state of the textile industry.						
BD	ES	Bases of Academic Writing	The purpose: Formation and strengthening of writing and critical thinking skills necessary for effective academic writing. Contents: Skills of creative writing of written works (essay, report, term paper, and diploma) using existing knowledge in the field of textile materials research, taking into account generally accepted requirements for the structure of text construction, the choice of presentation style, design using scientific literature. The ability to logically correctly, argumentatively and clearly build oral and written speech, including in a foreign language.				v		v
BD	ES	Textile Materials Study	The purpose: Formation of theoretical knowledge of the fundamentals of textile materials science characteristics of the structure and properties of fibers, threads, fabrics, knitwear, nonwoven fabrics; Analyze and summarize the results obtained, comparing them with the standards; Contents: Consideration of the most important types of natural and chemical fibers, yarns, yarns; features of the structure and properties of		v	v			

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				contrast, nuance, identity, statics, dynamics, rhythm, mass, scale, etc., the laws of composition. The study and analysis of the form of a simple and complex object, the laws of beauty: proportionality, three-component, subordination, grouping rules, various types of rhythmic and plastic movements, principles of transformation of various natural forms.								
	BD	HSC	Educational Practice	The purpose: Consolidation and deepening of the theoretical knowledge of the teacher, their acquisition of practical skills and competencies, as well as experience of independent professional activity. Contents: Familiarization with the main activities of the student in various structures of the textile enterprise. Training in the methodology of searching and collecting information on a topic of interest with the help of information and bibliographic manuals. Have an idea about your future profession, about the types of textile enterprises. Know the safety precautions for those working at textile enterprises in the industry.	1		V	v		v		
Module of Technology and Equipments of Textile Production	BD	EC	Design of Fiber Materials	The purpose: To study the composition, structure and properties of cotton, wool, linen, silk, chemical fibers Contents: The properties of fibrous materials of various raw materials are considered: cotton, wool, linen, silk, as well as chemical fibers. Parameters of the structure of fibers and yarn. Designing the composition of fiber mixtures and cotton spinning technology for all technological processes. To evaluate the properties of the designed structures using various physic- chemical testing methods. Analyze the relationship between the structure and properties	5	v			v			

			of textile fabrics of different interlacing fibrous					
			materials.					
BD	EC	Yarn and Thread Design			v		v	
			in predicting the properties of yarn and thread.					
BD	EC	Technological Processes for Production of Patterned Weaves	The purpose: To study the structure, properties and processes of knitting knitwear. Contents: Study of the structure, properties and processes of the production of knitwear of patterned and combined weaves. Know the theory of pattern formation and the technology of knitting production. Students acquire skills in recognizing various subclasses, types and subspecies of interlacing according to their basic material science and technological characteristics. The ability to develop refueling cards based on rapports and cartridge patterns, graphic records of interlacing.	5		V		
BD	EC	Combined Knitted Weaves	The purpose: He studies to design the structure of mixed knitwear and create methods for designing technological parameters of mixed incomplete knitwear. Contents: Ability to design new incomplete combined weaves from various types of raw materials, optimization of structures and study of the properties of the developed canvases.			v		

	Drawing up methods for designing technological parameters of knitwear combined incomplete weaves. To analyze resource-saving technologies for producing knitwear for a wide class of combined weaves.
BD EC	C Fabric Printing Technology The purpose: Studies the main types and methods of printing on fabric, drawing images on fabric, thermal transfer and screen-printing. 6 v v v Contents: The main types and methods of printing on fabric are considered. Description of the types and methods of using sublimation printers or special sublimation inks. Using a color laser printer. Applying the image to the fabric — thermal transfer and screen-printing. Advantages and disadvantages of using this method of printing on fabric. V V V
BD E0	C Innovative The purpose: Studies innovative ways of Method of printing textile materials, methods of fabric dyeing, printing and dyeing. Printing Textile Gontents: The features of the decoration of textile products using dyes with various methods are considered; To study tools, materials, accessories for the artistic decoration of fabrics using dyes. Acquire professional competencies in the field of textile decoration by means of dyeing, printing and painting fabrics; Analyze ways to create printed drawings on textile materials with different polymer fiber content
BD EC	

				smart textiles. Passive smart textiles. The main types of textiles from smart fabrics and their application. Intelligent textiles. Definition and classification of textiles smart fabrics with electronic information. Application of electronic information Smart Textile. To master various types of decorative and applied creativity in preparing a student for decorative and applied art.								
	BD	EC	Nanotechnology in Textile Industry					v	v	v		
Module of General Technology and Service of Textile Production	BD	EC	Innovative Technologies of Textile Production	The purpose: Formation of students to purposefully conduct research on the creation and artistic shaping of innovative textiles. To know the properties of innovative materials, to systematize and classify the types of modern textiles and other fabrics in accordance with the areas of their use. Contents: To know the development of trends in innovative technologies of textile production. 3D printing - getting a finished model from a special printer. Three-dimensional design technology. Creation of environmentally friendly technologies for dyeing and processing textile materials using modern	6		v		v	v		

BD EC Service and Operation of Textile machines. The purpose: To study the repair and spinning. weaving and knitting production are considered; The main factors affecting the unevenness of fibers and spinning productive quipment. 5 v	BI	D EC	Technology and	The purpose: Formation of students' skills to			v		v	v				
BD EC Service and Operation of Equipment. Contents: The machines, replacement of spinning, weaving and knitting production equipment. 5 v v v BD EC Service and Operation of textile machines, replacement of spinning. Service and Operation of adjusting broduction are considered; The main factors aftering the unevenness of these and spinning products, the considered; The machines are determined. v v v BD EC Service and Operation of textile machines, replacement of spinning, was on operation of textile machines, replacement of spinning broducts, the considered; The machines, replacement of textile machines, replacement of Textile machines, replacement of textile machines, replacement of textile machines, replacement of adjustment, analysis of ways to repair damaged mechanisms of textile coupment, analysis of ways to repair damaged mechanisms of textile machines. v v v BD EC Repair and modeling processes of textile industry enterprises. The equipment, equipment, mathods of adjusting the actuators of machines. Know the current state of textile equipment enterprises. The equipment and installation of equipment, mathods of textile equipment enterprises. The equipment and installation of operation of textile industry enterprises. The textile explorement of the repair and adjustment of textile machines, replacement of worn parts, Textile Machines, replacement of worn parts, Textile Machines aftery during maintenance and operation of textile explorement. v v v			Equipment in	determine the parameters of technological										
BD EC Service and Operation of Textile machines, replacement of spinning, weaving, and knitting production are considered; The main processes and equipment. 5 v v v BD EC Service and Operation of Textile machines, replacement of spinning, ways to repair damaged mechanisms of textile machines. Science and yeas to repair and adjustment of settile machines. Science and the current state of textile machines. Science and the current state of textile machines, replacement of adjusting the actuators of machines. Know the current state of textile machines. Science and the current state of textile machines. Science and the current state of textile machines. Science and the current state of textile machines. The specifies of textile industry enterprises. The specifies of textile industry enterprises. Crganization of peration of textile equipment. v v v BD EC Repair and Adjustment of the textle machines, replacement of textile machines, replacement of textile machines. v v v BD EC Service and Adjustment of textle machines, replacement of textile machines. V v v v BD EC Repair and The purpose: To study the repair and adjustment and the operation of textile repair and adjustment of textile machines. Service and the current state of textile equipment. V V V BD EC Repair and Adjustment of the textile machines, replacement of worn parts, Textile Machinessafety during maintenance and operation of textile				equipment and processes of spinning, weaving										
BD EC Service and Operation of Textile Equipment. The purpose: To study the repair and 5 adjustment of textile equipment, safety during maintenance and operation, repair and installation of equipment, methods of adjustment of textile equipment. v v v BD EC Service and Operation of textile machines. replacement of worn parts, safety during maintenance and operation of textile production equipment, analysis of ways to repair damaged mechanisms of textile production of equipment, methods of adjustment of textile machines. Now the specifics of technological processes of textile industry enterprises. The specifics of textule equipment. V v v BD EC Repair and Adjustment of textile machines, replacement of worn parts, safety during maintenance and operation, repair admaged mechanisms of textile machines. V v v v BD EC Repair and Adjustment of textile machines, replacement of worn parts, repair and adjustment of textile equipment. V v v v BD EC Repair and Adjustment of textile machines, replacement of worn parts, replacement of worn parts, repair and adjustment of textile machines. Report the specifics of textile equipment. V V V			Production	and knitting production. Be competent in new										
BD EC Service and Operation of textile machines. replacement of synning, weaving, knitting production are considered; The main factors affecting the unevenness of fibers and spinning products, the economy of raw materials, the productivity of machines are determined. v<				types of spinning, weaving and knitting										
BD EC Service and Operation of Textile BD The purpose: To study the repair and operation of Textile Equipment's adjustment of textile machines, replacement of Textile BD v				production equipment.										
BD EC Service and Operation of Textile Equipment's addigute the textile production of textile machines, replacement of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. V V V V BD EC Service and Operation of Textile machines, replacement of worn parts, safety during maintenance and operation of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. V V V V BD EC Service and Approximation of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. Contents: Use methods of disassembly, assembly and installation of equipment enterprises. The specifics of textile equipment enterprises. The specifics of textile production of operation of textile equipment. V V V BD EC Repair and Adjustment of textile machines, replacement of operation of textile equipment. Safety during maintenance and operation of textile production equipment. V V V BD EC Repair and Adjustment of textile experiment. Adjustment of textile machines, replacement of operation of textile production equipment. V V V				Contents: The main processes and equipment										
BD EC Service and Operation of Textile machines. To study the repair and adjustment of textile machines, replacement of Textile worn parts, safety during maintenance and operation of textile machines. v v v v v BD EC Service and Operation of Textile machines, replacement of adjustment of textile machines, replacement of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. v				of spinning, weaving, knitting production are										
BD EC Service and Operation of Textile machines, replacement of worn parts, safety during maintenance and operation of Textile machines. v <				considered; The main factors affecting the										
BD EC Service and Operation of Textile The purpose: To study the repair and adjustment of textile machines, replacement of or parts, safety during maintenance and operation of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. v v v v Equipment's Equipment's Safety during maintenance and operation of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. V v				unevenness of fibers and spinning products, the										
BD EC Service and Operation of Textile Equipment's The purpose: To study the repair and adjustment of textile machines, replacement of worn parts, safety during maintenance and operation of textile production equipment, analysis of ways to repair damaged mechanisms of textile machines. v v v v Contents: Use methods of disassembly, assembly and installation of equipment enterprises. The specifics of textile equipment enterprises. The specifics of textile equipment enterprises. The specifics of textile equipment. Safety precautions during maintenance and operation of textile equipment. v v v v BD EC Repair and Adjustment of textile machines, replacement of of textile machines, replacement of worn parts, Textile Machines/sreplacement. The purpose: Master the repair and adjustment Adjustment of textile equipment. v v v				economy of raw materials, the productivity of										
BD EC Repair and The purpose: Master the repair and adjustment of textile machines, replacement of textile machines, replacement of textile machines, and textile production equipment, and textile machines. BD EC Repair and Adjustment of textile machines, replacement of textile machines, correction of textile machines, and textile production equipment, and textile machines, and textile machines, the specifics of textile machines. BD EC Repair and Adjustment of textile machines, replacement of textile machines, correction of textile machines, the specific soft textile machines, the specific soft textile machines, the specific soft textile production of textile machines, the specific soft textile														
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BD EC Repair and Adjustment of I extile Machines The purpose: Master the repair and adjustment Adjustment of I extile machines, replacement of worn parts, Textile Machines safety during maintenance and operation of textile production equipment. V V V			A											
BD EC Repair and Adjustment of textile machines, replacement of worn parts, Textile Machines safety during maintenance and operation of textile production equipment. v v v														
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BD EC Repair and Adjustment of Textile Machiness afety during maintenance and operation of textile production equipment. V V V V V V														
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BD EC Repair and Adjustment of textile Machines, replacement of vextile production equipment. The purpose: Master the repair and adjustment of textile machines, replacement of vextile production equipment. v v v														
BD EC Repair and Adjustment of Textile Machines safety during maintenance and operation of textile production equipment. V V V V V V V V V V														
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BD EC Repair and Adjustment of Textile Machines The purpose: Master the repair and adjustment of textile machines, replacement of worn parts, repair and operation of textile production equipment. V V V														
BD EC Repair and installation of equipment. Safety precautions during maintenance and operation of textile equipment. BD EC Repair and Adjustment of Adjustment of textile machines, replacement of worn parts, Textile Machines safety during maintenance and operation of textile production equipment. v v v														
BD EC Repair and Adjustment of Extile Machines The purpose: Master the repair and adjustment of textile machines, replacement of worn parts, Textile Machines v v v v														
BD EC Repair and Adjustment of Textile Machines safety during maintenance and operation of textile production equipment. V V V V														
BD EC Repair and Adjustment of Textile Machines The purpose: Master the repair and adjustment of textile machines, replacement of worn parts, Textile Machines safety during maintenance and operation of textile production equipment. v v v v v														
Adjustment of of textile machines, replacement of worn parts, Textile Machines safety during maintenance and operation of textile production equipment.	DI		Donair and											
Textile Machines safety during maintenance and operation of textile production equipment.	DI							v			v	V		
textile production equipment.														
maintenance of the textile equipment being														
operated and safety regulations. The main														
regulators. Wear of equipment parts, methods of														
detecting defects of parts. Technical														

				characteristics of the equipment used in the fabric production process. The main parts of the automatic loom: lamellas, remiz, berdo Mechanisms of tension and feeding of the warp from the navoi.								
	ChD	HSC	Industrial Practice I	The purpose: Formation of students with the nature and characteristics of their future activities based on the development of professional skills and gaining professional experience both within a single organization and across sectors of the economy. Contents: To have an idea of technological processes, textile production equipment, the location of workshops and their interrelation, product quality control, methods of testing textile materials and products, vehicles, economics, organization and quality control of products and technical and economic indicators of production.	4				v		v	v
Module of Assortment, Design and Finishing of Textile Materials and Products	ChD	EC	Assortment and Quality Assessment of Textile Materials and Products	and processing of textile materials and products. Take into account the principles of color	4		v	v	v			
	ChD	EC	Assortment Mobility of Textile Production	The purpose: Formation of students in the field of studying the assortment and technology of production of textile materials and products, as well as practical skills in identifying textile			v	v	v			

		: 5 1 1 1 1 1	products. Contents: C expanding the yarns. To know the designed y knowledge on the textile methodology f	their confe consider promi range of mul- w the range of arn is intended resource-savir industry. De or predicting the oy the ring spin	sing directi ticomponent products fo d and to ge ng technolo evelopment he breaking	ions for at textile or which eneralize ogies in of a g load of							
BD		ile Interior coration t t	The purper knowledge of of design, interior competencies technology of v use in the style Contents: T and industrial directions of perform the se design required	ose: Formati decorative and textiles, forma in interior des various textile a	on of s applied art, applied art, tion of prof ign, manufaccessories a asics of the textiles; sty n; To be terials accor- y out the pro-	students' , interior fessional facturing and their e artistic yles and able to rding to ocess of	5			Ň			v
BD	Prin	kscreen nting on Fabric f f f f f f f f f f f f f f f f f f f	The purpose finishing and p Contents: E fabric, posses composition, s fibers based hemp) by meth analysis; comp natural protein qualitative qua silk fabrics.	e: Studies the rinting on the fa- nsuring the qua- s the skills tructure and pa- on cellulose of ods of qualitat osition, structu fibers (wool, s untitative analy Preparation of s (threads) and	technology abric surface ality of prin to determ roperties of (cotton, fla ive and qua re and prop silk) by met vsis, prepara of material	y of silk re nting on ine the f natural ax, jute, untitative perties of thods of ration of ls from				X			V
ChD	EC Artisti	ic Painting	The purp	ose: Formati	on of s	students'	4		v	v			

		of Woven	Fabric professional skills in artistic painting on fabric. Contents: To know the history of the development of artistic painting of fabrics. Rules for the use of tools, devices, dyes when painting fabrics in various techniques and basic techniques for painting on fabric. To produce artistic painting of textile, products using various techniques and techniques of artistic painting on fabric; to use additional effects and techniques in fabric painting. Own: the technology of artistic painting on fabric
	ChD	EC Artistic Ki of Knit Produc	nitting The purpose: Formation of competence in the ted field of artistic design of knitwear in accordance
Design of Textile Materials and Production module	ChD	EC Graphic Textile D	res in The purpose: Formation of competence in the 4 v v v v
	ChD		

			Artistic Textiles orientation; compositional solutions of design objects, mastering various methods of design graphics. Contents: Study and analysis of the form of a simple and complex object, mastering and applying graphic, technical and pictorial techniques for depicting forms of various types of materials in a variety of techniques, developing professional skills of theoretical and practical knowledge in the field of project culture, as well as performing culture with a focus on solving design and creative tasks of modern design.
	ChD	EC	Decoration of Textile Materials The purpose: understanding of the factors that determine the harmonization of elements in interior decoration, a holistic and systematic view of various artistic techniques that can emphasize the chosen design style. v v v Contents: Study of traditional and new methods of creating decor; mastering the skills of designing decorative elements taking into account the requirements of the consumer; mastering the skills of making decorative elements. Image: Study of traditional and new methods of creating decorative elements taking into account the requirements of the consumer;
	ChD	EC	Art- Design in Textiles The purpose: Formation of the student's aesthetic taste and creative thinking based on traditional and modern types of work with textiles. v v v Content: To develop the ability to make non- standard decisions, to look for new combinations of materials, colors, textures. v v v v
Module of Modern Technologie s and Ecological	ChD	EC	Finishing and Dyeing Textile Materials and ProductsThe purpose: Formation of a student's textile fabrics and products of various assortment.5Materials and ProductsContents: To acquaint with the ways of giving textile materials and products coloristic and1

Problems of				functional properties, methods of evaluating their							
Textile				effectiveness and safety. To reveal the unity and							ł
Production				connection of technological processes of textile							i
				technology, their impact on the quality of							ł
				products. Consider the properties of fibers that							ł
				determine the behavior of textile materials in the							ł
				processes of coloristic finishing.							ł
	ChD	EC	Technology of	The purpose: Formation of students'				v	v		1
			Finishing of	competence in the field of finishing technology							ł
			Nonwovens	of nonwovens.							ł
				Contents: To know the range of nonwovens,							ł
				the types of fibrous raw materials used for							ł
				production, and their properties; theoretical and							ł
				practical foundations of technological processes							ł
				for finishing nonwovens. Be able to classify							ł
				fibers, threads and binders used in the production							ł
				of nonwovens.							ł
	ChD	EC	Eco-Textiles	The purpose: Orientation of students to	5		v			v	-
	CIIL	20	200 100000	technological, organizational, and managerial	C		·			·	ł
				types of professional activity. To carry out an							ł
				analysis of the environmental situation in textile							ł
				production, and to apply methods of wastewater							ł
				treatment of textile enterprises.							ł
				Contents: Consider the principles of maximum							ł
				conservation of natural resources, waste-free							ł
				production, recycling of raw materials.							ł
	ChD	EC	Ecological	The purpose: Describe the current			v		v		
	CIID	EC	Problems of	environmental problems of textile production.			v		v		ł
				Substantiate measures to prevent harmful							ł
			i extile illuusu y	emissions and environmental pollution by							ł
				1 2							ł
				improving technological processes.							ł
				Contents: Calculate the proportion of dust on							ł
				the technological process and the principle of							ł
				operation of the equipment. Substantiate							ł
				wastewater treatment methods: neutralization,							ł
				oxidation, reduction and removal of heavy metal							<u>i </u>

				ions.						
	ChD	HSC	Industrial Practice II	The purpose: The student must understand the goals, methodology and methods of the technologist's professional activity, be able to organize, conduct and control the technological process at textile industry enterprises, carry out the formulation and solve design, operational experimental research tasks. Contents: Able to independently control and analyze the technological process at textile industry enterprises at textile industry enterprises. Consolidation of theoretical and practical knowledge gained by students in the study of specialization disciplines.	6			v	v	
Module of Planning Technologic al Processes of Textile Production	ChD	EC	Mélange Production	The purpose: Acquisition disciplines. The purpose: Acquisition by students of comprehensive knowledge about the production of textile fibrous materials, their properties, applications and advanced technologies for processing fibers into yarn, fabrics, nonwovens and knitted fabrics. Contents: Consider various technologies for the production of mélanges. Organize your own activities, choose standard methods and methods of performing professional tasks, and evaluate their effectiveness and quality. Know the process of making fabric from yarn produced from a mixture of heterogeneous and multicolored fibers, cotton, produced from mélanges cotton yarn.	4	v	v			
	ChD	EC	Production of Shaped and Textured Threads	The purpose: To expand the range and improve the quality of textile products by producing textile yarns with a complex structure consisting of complex yarns and fibers of various origin and properties. Contents: To analyze the feasibility of using viscose textured polypropylene and cotton yarns in the textile industry for the production of		v	v			

			shaped stretchable yarns.					
ChD	EC	Technology of Jacquard Weaving	The purpose: Formation of students' ability to solve professional problems in the design of jacquard fabrics. Contents: To know the classification of fabrics by raw material, the influence of weaving on the appearance of the fabric, the construction of a color pattern according to a given weave and color rapports on the base and weft, to own the weaves to perform a color pattern compiled according to the color rapport.	5	v	v		
ChD	EC	Jacquard Fabric Design			v	v		
ChD	EC	Design and Planning of Textile Materials	The purpose: Formation of creative, creative thinking and development of professional skills for the development of textile materials. Contents: To select harmonious combinations of colors in the design of textile materials, Obtaining practical skills for mastering modern and promising methods of fabric design,	6				
ChD	EC	Textile Print Design	The purpose: To form creative thinking and the ability to embody ideas in a three- dimensional image of models with an emphasis on artistic merit and taking into account					

			tashnalasiaal faaturas		T			 I		
			technological features.							
			Contents: Study of the best examples of design							
			creativity, graphic design of fabric. Types of							
	FG		design, its place in project creativity.							
ChD	EC	Innovative	The purpose: Formation of professional skills	6						
		^	of a student to solve real problems in a modern							
			professional environment, teaching students							
		Graphic Design	modern methods of design design, studying in							
			practice the specifics of visual means of graphic							
			design, the development of creative and							
			imaginative thinking.							
			Contents: Innovative approaches to textile							
			materials are considered, which is determined by							
			the rapid development and increasing influence							
			of modern technologies on the radical							
			improvement of existing textile industries.							
ChD	EC		The purpose: Formation of students'							
		Textile	competence in the field of creating ornamental							
		Composition	compositions for the design of fabrics, knitted							
			fabrics and textiles using traditional and							
			innovative methods of artistic design.							
			Contents: The use of the laws of color science							
			and coloristic in professional activities. Basic							
			concepts studied in the science of color. Areas of							
			application of color. Light and color. The color							
			spectrum. Spectral and non-spectral colors.							
			Achromatic and chromatic colors. Thermal							
			radiation. Characteristics (color tone, saturation							
			and lightness) and color properties.							
BD	ES	Scientific	The purpose: Training in conducting scientific	6				v	v	
		Research Work	research in the field of textile production.							
			Contents: Analysis of the state and dynamics							
			of quality indicators of objects of activity (raw							
			materials, yarn, fabric, knitwear, nonwovens,							
			technological processes) using the necessary							
			research methods and tools; creation of							

				theoretical models that allow predicting the properties of textile materials.							
	BD	ES	Experimental Research Work	The purpose: Obtaining the skills of research work. Preliminary experiment. Preparation and conduct of a preliminary experiment. Tasks of primary processing of the results of the preliminary experiment. Contents: Independently use testing equipment, measuring instruments and during quality control and examination of textile and knitted goods					v	v	
Module acquisition of new professional competencie s	BD	ES	Subjects in the Additional Educational Program	The purpose: Formation of additional professional competencies necessary for the implementation of comprehensive and extensive knowledge in the field of textiles in the interior. Contents: Students acquire knowledge about the main existing methods of hand-painted fabric in the batik technique and further use them in their creative activities. Identification of individual creative abilities of students, development of their imaginative thinking and imagination, as well as improvement of their aesthetic taste and artistic culture.	12	v	v		v		
Module of Final Attestation	ChD	HSC	Pre-Degree or Industrial Practice	The purpose: Consolidation of theoretical knowledge, skills and abilities acquired in the course of training, as well as the formation of a specialist, preparation of a student for passing the state comprehensive exam in the specialty and for the implementation of a diploma project (work). Contents: Conducting experiments, research on the topic of the thesis project (work), their processing and confirmation of the results obtained.	10		v		v	v	
			Writing and Defending a Thesis, a	The purpose: Determination of the level of theoretical and practical training of the student, his readiness for independent practical and	8		v		v	v	v

Graduate Work,	research work.						
or Preparing and	Contents: To choose a research methodology,						
Passing a	to find solutions to the problems and questions						
Comprehensive	that have arisen with your own responsibility; to						
Exam	explain the applied technological processes of						
	production of textile materials and products,						
	advantages and disadvantages; to consider the						
	task, identify the problem and carry out the task						
	of the thesis.						
Total		240					

5. Summary table reflecting the volume assimilated credits of education program modules

		lules		stud	nber of ied lines		Ν	Jumł	per of KZ credi	ts				number of
Course of Study	Semester	The number of mastered modules	Compulsory component	University component	Optional component	Theoretical training	Physical education	Educational practice	Industrial, pre-graduate practice	Final certification	Total hours Comp ulsory compo nent	KZ ity e	Optional component	Theoretical training
1	1	3	3	2	1	28	2				900	30	6	1
	2	3	3	2	1	27	2	1			900	30	5	2
2	3	5	3	2	1	28	2				900	30	6	2
	4	5	-	1	4	24	2		4		900	30	5	2
3	5	5		-	6	30					900	30	6	-
	6	3			5	24			6		900	30	3	1
4	7	4			4	21					600	21	4	-
	8	2		-	4	21					600	21	4	-
	9					18			10	8	600	18		1
То	tal	31	9	7	26	203	8	1	20	8	7200	240	40	9

6. LEARNING STRATEGIES AND METHODS, MONITORING AND EVALUATION

Learning strategies	Student-centered learning: The student is the center of
Learning strategies	teaching/learning and an active participant in the learning and
	decision-making process.
	Practice-oriented learning: focusing on the development of
	practical skills.
Tasshing mathads	Conducting lectures, seminars, various types of practices:
Teaching methods	• using innovative technologies:
	 problem-based learning;
	• case study;
	• work in a group and creative groups;
	• discussions and dialogues, intellectual games, Olympiads,
	quizzes;
	 reflection methods, projects, benchmarking; Disorda toworowica;
	• Bloom's taxonomies;
	• presentations;
	• rational and creative use of information sources:
	• multimedia training programs;
	• electronic textbooks;
	• digital resources.
	Organization of independent work of students, individual
	consultations.
Monitoring and evaluation	
of the achievability of	
learning outcomes	to syllabus). Assessment forms:
	 survey in the classroom; testing on the tenior of the discipline;
	 testing on the topics of the discipline; control isher
	 control jobs; protection of independent creative works;
	 discussions;
	• trainings;
	• colloquiums;
	• essays, etc.
	Boundary control at least twice during one academic period
	within the framework of one academic discipline. Intermediate certification is carried out in accordance with the
	working curriculum, academic calendar.
	Forms of holding:
	• exam in the form of testing;
	• oral exam;
	• written exam;
	• combined exam;
	• project protection;

• protection of practice reports. Final state certification.	
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7. EDUCATIONAL AND RESOURCE SUPPORT OF THE EP

Information Resour Center	 www.portal.ukgu.kz, provides information about the educational process at SKU. Thanks to an effective search system, it is possible to obtain information related to the student personally, such as lists of classes, exam schedules for semesters, academic performance, UMKD of the current semester, and in general for the university (data on faculties, teachers, etc.). Library web site http://lib.ukgu.kz is an indicator of the level of information service. The reference and bibliographic apparatus of the library, bulletins of new arrivals, novelties of publishing houses, virtual exhibitions, news feed and other services are widely presented on the site. Thematic collections of Internet resources are formed at the request of students and teachers. For teachers, students there is a section "Information for scientists", which presents the requirements for educational, scientific and reference publications in accordance with GOST standards; rules for the design of literature lists; a list of periodicals and scientific and technical publications of the Republic of Kazakhstan, recommendations for determining the citation index. A modern reference and bibliographic apparatus is provided to the services of users: an electronic catalog, an electronic file of articles, an electronic file of dissertations abstracts. Work with catalogs is carried out in two types: electronic catalog is 151513 bibliographic entries. The electronic catalog of the OIC is presented on the website http://lib.ukgu.kz.
	 OIC is presented on the website http://lib.ukgu.kz. For university users, the Educational and Information Center (Library) has created up-to-date full-text databases of its own generation: "Works of the teaching staff of M.Auezov SKSU", "Electronic Archive", "AlmaMater", etc., which since 2017 for the convenience of searching combined into a single search engine. On-line access to databases is open: "SpringerLink", "Scopus", "Envoy", "Thomson Reuters ISI Web of Science", "ScienceDirect", "EBSCO", to Kazakhstan databases: "KazPatent", "Epigraph", "Zan", "RMEB".
Material and technical bas	

and devices: automatic hosiery knitting machines "Haisen
china HS 808 M", "Haisen china HS 808 P", automatic glove
knitting machine "Haisen china HS 305", comb-carding
machine firm 1603 "Textima", tape machine "LMSH-220-
1T", wrapping machine "Merrylock", sewing machine
"Bernette", knitting machine "Silver" SK-280, bursting
machine RM 3-1, electronic laboratory scales Adventurer,
microscope HSZ-137V, drying cabinet SHS-80, centrifugal
VUS MT 250, moisture meter VUS MT 250, drying cabinet
SHS-80, aspiration psychomotor MV-4M, torso scales WT,
analytical scales, thermostats, refrigerator, water baths.
Laboratories are equipped with personal protective
equipment, first aid kits, fire extinguishing equipment (fire
extinguisher), equipped with fume hoods.

⁻AGREEMENT SHEET

by Education Program code 6B07261 - «Innovative textiles, design and decor»

Director of DAA

Sign

Naukenova A. S.

Director of DASc

Sign

Nazarbek U.B.

Director of DE&C

Bazhirov T. S.

Review from the employer

on the educational program 6B07261 – «Innovative Textiles, Design and Decor» developed in SKU named after M. Auezov, Shymkent city.

Brief characteristic of the enterprise and profile of its activity. Production capacity of LLP "SIC Zhana Zhoba", is more than 5 thousand tons of finished products. Carded and combed yarn is a product of processing of medium- and long-fiber varieties of cotton fiber. Depending on the spinning system the yarn is subdivided into combed and carded yarns. The company has installed equipment of world brands "Rieter", "MURATA", "VOLKMANN", "STRAPEX, XORELLA" and laboratory equipment "Uster". The installed technological equipment meets the requirements of ISO 9001 series.

Determines the grade, moisture, litter and other qualitative indicators of cotton in the laboratories of the plant area and billet departments outside the plant. In accordance with the requirements of current state standards, reference samples for proper acceptance in laboratories cluster from cotton takes average samples and visually checks their quality.

The reviewed educational program (hereinafter EP) in the direction of training 6B07261 -«Innovative Textiles, Design and Decor», is a system of documents developed on the basis of the State obligatory standard of education (hereinafter State obligatory standard of education) VPVO Order No 21 of the Minister of Science and Higher Education of the Republic of Kazakhstan from January 19, 2023. The developed EP has a high level of provision with educational and methodical documentation and materials. The quality of the reviewed EP does not cause doubts. The program can be used for training bachelors.

EP regulates the objectives, expected results, content, conditions and technologies of the educational process, evaluation of the quality of graduate training in this area of training and includes: curriculum, working educational programs of courses, subjects, modules and other materials that ensure the quality of training of students, as well as programs of academic and industrial practice, calendar study schedule and methodological materials that ensure the implementation of appropriate educational technology.

Material and technical support of the educational process in the direction of training 6B07261 -«Innovative Textiles, Design and Decor» fully meets the requirements of the State Educational Standards.

It should be noted that the quality of the content component of the curriculum of this educational program is not questionable. The disciplines included in the educational program reveal the essence of the actual for today. The reviewed program itself structurally and content-wise allows to achieve the main objective of the educational policy of M. Auezov SKU, on the implementation of educational programs of higher and (or) postgraduate education, namely to provide training of highly qualified specialists with advanced professional training, competitive in the domestic and international labor market. Conclusion on EP 6B07261 – «Innovative Textiles, Design and Decor». The structure of the program is made logically, consistently and provides their achievement. The educational program meets the requirements for the training of highly qualified specialists.

Based on the above, we state the compliance of the EP in the direction of training 6B07261 – «Innovative Textiles, Design and Decor», implemented in the SKU named after M. Auezov, the normative state documents in the field of higher education of the Republic of Kazakhstan.

RHALL TO Director of «SIC Zhana Zhoba» LLP« R.S.Tashmenov

Expert opinion

for the educational program 6B07261 - "Innovative textiles, design and decor", developed by the Department of "Technology and Design of textile materials" of M. Auezov SKU, Shymkent, Republic of Kazakhstan

The educational program 6B07261 - "Innovative textiles, design and decor" is developed in accordance with the Rules of the organization of the educational process on credit technology training and is designed to provide training of the textile industry of the Republic of Kazakhstan by highly qualified specialists corresponding to all 6 levels of the European qualified framework for bachelors of engineering and technology. The educational program is relevant for training the necessary personnel for the development of the textile industry of the Republic of Kazakhstan.

The educational program corresponds to the goals formulated in the module, which reflect the mission of the university, the needs of employers in the textile industry and students studying. It also fully corresponds to the qualification framework of the Republic of Kazakhstan.

The reviewed educational program (hereinafter referred to as EP) in the field of training 6B07261 - "Innovative textiles, design and decor", is a system of documents developed on the basis of the State Mandatory Standard of Education (hereinafter referred to as SMSE) Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated January 19, 2023 No. 21

Learning outcomes and competencies, their relationship to the demands of the labor market. SKU named after M. Auezov is aimed at training highly qualified specialists who are in demand in the labor market, integrating the university into the global educational environment, making a breakthrough in the quality and effectiveness of scientific research and innovative developments, and positioning the university in national and international university rankings.

The developed EP has a high level of availability of educational and methodological documentation and materials. The presented programs of all the declared disciplines and practices. The quality of the reviewed EP is beyond doubt. The program can be used for bachelor's degree programs.

The program can be used the enterprise and practical skills. The practice of The presence of components that develop practical skills. The practice of undergraduate students is a mandatory form of the educational process, strengthens theoretical knowledge and conducting classes at the enterprise allows students to acquire practical skills and serves as a training for their professional adaptation in the workplace in the future. The topics of course and final bachelor's works, educational and research works of students were also agreed with the representatives of the enterprises.

It should be noted that the SKU named after M. Auezov has departments "Business Incubator" and "Patent Department", which serve their students, undergraduates, doctoral students and teaching staff free of charge. This gives you a great chance to realize yourself as a person of science and as an entrepreneur, as the current realities have proven that you need to be versatile and creative.

The educational program reflects the learning outcomes and competencies of highly qualified specialists, which are based on the Dublin Descriptors, as well as in the professional requirements of the standards of the industry framework.

The educational program corresponds to the SMSE, CURRICULUM and standard curriculum. It contains components for preparing for professional activity, developing key competencies, intellectual and academic skills, reflecting the modern requirements of society, including the presidential program for mastering and teaching three languages: Kazakh, Russian and English.

The EP regulates the goals, expected results, content, conditions and technologies of the educational process, the assessment of the quality of graduate training in this field of training and includes: curriculum, working curricula of courses, subjects, modules and other materials that ensure the quality of training of students, as well as programs of educational and industrial practice, a calendar training schedule and methodological materials that ensure the implementation of the appropriate educational technology.

Material and technical support of the educational process in the training direction 6B07261 - "Innovative textiles, design and decor" fully meets the requirements of the State Educational Standard.

The subjects listed in the program are presented in a logical order and reflect the main requirements of the curricula and training programs.

The educational program is designed in accordance with the academic load of students and teachers in the credit system of education. It covers all aspects of the organization of industrial practice, which are expressed in the training load in credits (hours).

As a result of mastering the educational program, the graduate will receive the awarded Bachelor of Engineering and Technology degree in the educational program 6B07261 - "Innovative textiles, design and decor".

Having familiarized with this educational program 6B07261 - "Innovative textiles, design and decor", experts believe that it meets all the requirements for the training of highly qualified bachelors in OP 6B07261 - "Innovative textiles, design and decor".

Chairman of the Academic Commission Khanzharov N.

Members of the Commission: Cand.chem.sci., Professor of the Chair «Food Engineering»

Urazbaeva K.A.

candi. tech.sci.,Assoc. Prof. Head of the Chair «Food Engineering»

Imanbayev A.