

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

«APPROVED»
Acting Chairman of the Board-Rector
K. Nurmanbetov
2024



EDUCATIONAL PROGRAM

6B07260 – «Technology and Design of Textile Materials»

Registration Number	6B0700018
Code and Classification of Education	6B07- Engineering, manufacturing and construction industries
Code and Classification of Areas of Training	6B072- Manufacturing and processing industries
Group of educational programs (EP)	B070- Textiles: clothing, footwear and leather goods
Type of EP	current (updated)
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:

Full Name	Position	Signature
Yeshzhanov A.A.	a.d. Head of the chair.	
Togataev T.	associate Professor, candidate sciences	
Abdikerimov S.	associate Professor, candidate sciences	
Tyrganbaeva A.A.	master, senior lecturer	
Kaldykulov M	master, senior lecturer	
Konysbekov S.M.	master, lecturer	
Abdieva D.	Group JT-21-8k	
Ergesh B.	Group JT-21-8k	
Amirali G.	Group JT-21-4tk	
Iskhakhov T.Zh.	Director of Bal Textile LLP	
Baynurov A.	Director of TEXTILE GROUP KZ LLP	
Kanzharbayuly. Sh.	Director of Shymkent-Cashmere LLP	
Karakulov N.S.	Director of Bal Décor LLP	
Tashmenov R.S.	Director of SIC Zhana Zhoba LLP	

The EP was considered at a meeting of the Academic Quality Committee of the Textile and food engineering the Higher School, Minutes # 02 2024 y. « 22 »

Chairman of the Committee Khanzharov N.

The EP was considered and recommended for approval at Educational-methodical meeting of M. Auezov SKU Minutes # 9 «28» 02 2024 y.

Chairman of the UMS K. Sarykulov

The EP was approved by the decision of the Academic Council of the University. Minutes # 10 «28» 03 2024 y.

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1. CONCEPT OF THE PROGRAM

Mission of the University	We are focused on generating new competencies, training a leader who translates research thinking and culture.
University Values	<ul style="list-style-type: none"> – 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	<ul style="list-style-type: none"> – Deep subject knowledge, their application and continuous expansion in professional activity – Information and digital literacy and mobility – 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	<ul style="list-style-type: none"> • 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 and Ethics Policy	<p>The university has taken measures to maintain academic integrity and academic freedom, protection from any type of intolerance and discrimination:</p> <ul style="list-style-type: none"> • 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 framework for the development of EP	<ol style="list-style-type: none"> 1. Law of the Republic of Kazakhstan “On Education”; 2. Model rules for the activities of educational organizations 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

	<p>organizations implementing educational programs of higher and 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</p> <p>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;</p> <p>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</p> <p>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 Republic of Kazakhstan dated December 30, 2020 No. 553.</p> <p>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 Higher Education. of the Republic of Kazakhstan dated February 12, 2024 No. 57</p> <p>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</p>
Organization of the educational process	<ul style="list-style-type: none"> – Implementation of the principles of the Bologna Process – Student-centered learning – Availability – Inclusivity
Quality assurance of EP	<ul style="list-style-type: none"> – Internal quality assurance system – Involvement of stakeholders in the development of the EP and its evaluation – Systematic monitoring – Updating the content (updating)
Requirements for applicants	<p>They are established in accordance with the Standard Rules for admission to training in educational organizations implementing 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</p>
Conditions for the implementation of	<p>For students with SEN (special educational needs) and persons with disabilities (PSI), tactile PVC tiles, specially</p>

educational programs (EP) for persons with disabilities and special educational needs(SSN)

equipped toilets, a mnemonic diagram, and shower bars have been installed in educational buildings and student dormitories. Special parking spaces have been created. Crawler lift installed. There are desks for people with limited mobility (PLM), signs indicating the direction of movement, ramps. In the educational 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™ 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

<p>Purpose of the EP</p>	<p>Preparation of highly qualified bachelors with a competitive level of knowledge, skills and professional skills in the field of the textile industry.</p>
<p>Tasks of the EP</p>	<ul style="list-style-type: none"> - 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
<p>Harmonization of EP</p>	<ul style="list-style-type: none"> • 6th level of the National Qualifications Framework of the Republic of Kazakhstan; • Dublin descriptors of the 6th level of qualification; • 1 cycle of a Framework for Qualification of the European Higher Education Area); • 6th Level of European Qualification Framework for Lifelong Learning).
<p>Connection of EP with the professional sphere</p>	<p>The industry qualifications framework in "Light Industry" was approved by the minutes of the meeting of the industry commissions 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.</p> <ol style="list-style-type: none"> 1. The professional standard "Harvesting of raw cotton and primary processing of cotton" was approved by the order of the Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated 10/26/2022 No. 190. 2. Professional standard "Forensic commodity research of non-food products", Minister of Justice of the Republic of Kazakhstan dated December 23, 2024 No. 60. 3. Professional standard "Forensic examination of fibrous

	<p>materials and products made of them", Minister of Justice of the Republic of Kazakhstan dated January 23, 2024 No. 60.</p> <p>4. The professional standard "Specialist in the field of textile and clothing design" was approved by Order of the Ministry of Labor and Social Protection of the Russian Federation (prepared by the Ministry of Labor of the Russian Federation No. 151n dated March 21, 2022)</p>
Name of the degree awarded	After the successful completion of this EP, the graduate is awarded «Bachelor of Engineering and Technology» 6B07260 – «Technology and Design of Textile Materials»
List of qualifications and positions	According to EP 6B07260 – «Technology and Design of Textile Materials», they can hold primary positions of technologist, engineer, specialist 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 professional activity	The field of professional activity is the textile industry (in the field of design and production of textile products; in the field of research; in the field of standardization, certification and quality management, technical expertise).
Objects of professional activity	- branches of the textile complex and processing industries, research organizations, firms of various forms of ownership, factories or textile enterprises, as well as control and production laboratories, regulatory and technical documentation.
Subjects of professional activity	<ul style="list-style-type: none"> - textile materials and products, knitted fabrics, natural and artificial leather, fur, non-woven and shoe materials; - 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 professional activity	<ul style="list-style-type: none"> - production and management of existing technological processes of production of yarn and yarns, fabrics, knitwear, nonwovens; 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

	<p>creating graphic images, project documentation, computer modeling;</p> <p>-theoretical and experimental research in the field of production technology of fabrics and knitwear using modern methods of experiment planning.</p>
<p>Learning outcomes</p>	<p>LO1. Communicate freely in a professional environment and society in Kazakh, Russian and English, taking into account the principles of academic writing and a culture of academic honesty.</p> <p>LO2. Demonstrate socio-cultural, professional development based on the formation of ideological, civic, spiritual and social responsibility, methods of scientific and experimental research.</p> <p>LO3. Possess information and computational literacy, the ability to generalize, analyze and perceive information, set a goal and choose ways to achieve it.</p> <p>LO4. Analyze the state and dynamics of quality indicators of objects of activity (raw materials, yarn, fabrics, knitwear, nonwovens, technological processes) including analysis of fibrous materials and products.</p> <p>LO5. Be guided by the principles of operation of the main and auxiliary equipment, determining the consumption rates of raw materials and materials.</p> <p>LO6. Analyze, evaluate and compare the structure, properties and quality indicators of the objects of study of textile and leather products.</p> <p>LO7. Rational use of raw materials and materials in the production of textiles.</p> <p>LO8. Implement modern innovative technologies and processing of competitive textile materials and products.</p> <p>LO9. Analyze, evaluate physical–mechanical, hygienic consumer properties, causes of defects and defects of textile materials and products, using modern testing devices and equipment.</p> <p>LO10. Improve technological processes and equipment, studying scientific and technical information, domestic and foreign experience; apply the results obtained in practice.</p> <p>LO11. Use research, entrepreneurial skills in professional activities.</p> <p>LO12. Work effectively individually and as a member of the team, correctly defend of his/her point of view, adjust actions and use different methods.</p>

3. COMPETENCES OF EP GRADUATE

GENERAL COMPETENCIES (SOFTSKILLS). Behavioral skills and personal qualities	
GC 1. Competence in managing your literacy	GC1.1.The ability to self-study, self-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 competence in the field of science	GC3.1 The ability and willingness to 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	GC4.1.The ability to demonstrate and 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 competencies	GC5.1.The ability to physical self-improvement and orientation to a healthy life to ensure full-

	<p>fledged social and professional activities through methods and means of physical culture.</p> <p>GC5.2.The ability to socio-cultural development based on the manifestation of citizenship and morality.</p> <p>GC5.3. The ability to build a personal educational trajectory throughout life for self-development, career growth and professional success.</p> <p>GC5.4. The ability to successfully interact in a variety of socio-cultural contexts during study, at work, at home and at leisure.</p>
GC6. Entrepreneurial competence	<p>GC6.1. The ability to be creative and enterprising in different environments.</p> <p>GC6.2. Ability to work in the mode of uncertainty and rapid change of task conditions, make decisions, allocate resources and manage your time.</p> <p>GC6.3. Ability to work with consumer requests.</p>
GC7. Cultural awareness and self-expression	<p>GC7.1. The ability to show ideological, civic and moral positions.</p> <p>GC7.2. The ability to be tolerant of the traditions and culture of other peoples of the world, to possess high spiritual qualities.</p>
PROFESSIONAL COMPETENCIES (HARDSKILLS).	
Theoretical knowledge and practical skills specific to this field	<p>PC1.general professional.</p> <p>-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.</p>
	<p>PC2. Artistic and creative competencies</p> <p>- 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.</p>
	<p>PC3.production-technological activities in textile production.</p> <p>-have an idea of the technology and the production of fibers from natural raw materials, be able to skillfully make technological transitions to obtain natural textile fibers, know</p>

	<p>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.</p>
	<p>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.</p>
	<p>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 mélanges 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 mélange yarn.</p>
	<p>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 micro processor technology.</p>
	<p>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;</p>

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

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

				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. Building a three-dimensional model of an object.														
	BD	ES	Bases of Mathematical Modeling of Technological Processes	<p>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.</p> <p>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 multi-criteria problems of optimization of technological processes of textile production.</p>	4		v	v										
	BD	ES	Standardization, Certification and Metrology	<p>The purpose: Formation of theoretical 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.</p> <p>Contents: Objects of standardization, certification and metrology. Legislative and regulatory-technical base of standardization</p>	4									v			v	

				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.														
		BD	ES	Technical regulation and standardization	<p>The purpose: Acquisition of theoretical knowledge in the field of technical regulation, standardization and modern quality assessment systems, as well as the formation of practical skills and abilities to assess the conformity of products with technical regulations and standards.</p> <p>Contents: The systems of technical regulation, standardization, ensuring the uniformity of measurements, legislative and regulatory documents, types and categories of standards; application of standardization methods, certification schemes are considered.</p>									v				v
	Module of Bases specialty	BD	ES	Introduction to Specialty	<p>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 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.</p> <p>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</p>	3							v					v

			textiles. Classification and structure of fibers. Critically analyze the current state of the textile industry.															
	BD	ES	Bases of Academic Writing	<p>The purpose: Formation and strengthening of writing and critical thinking skills necessary for effective academic writing.</p> <p>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.</p>							v							v
	BD	ES	Textile Materials Study	<p>The purpose: Formation of theoretical knowledge of the basics 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;</p> <p>Contents: Consideration of the most important types of natural and chemical fibers, yarns, yarns; features of the structure and properties of fibers, yarns, fabrics, knitwear, nonwoven fabrics; characteristics of the properties of textile materials, their relationship with the structure and methods of their determination.</p>	6				v		v							
	ChD	ES	Basics of Textile Production	<p>The purpose: Formation of knowledge about the obtained natural and chemical fibers, their properties in the fields of application. Familiarization with the processes of primary processing of natural fibers, the main indicators for assessing the quality of textile materials.</p>					v		v							

				<p>Contents: Consider the basics of the processes of spinning natural and chemical fibers, weaving, knitting and nonwovens. The ability to draw up technological schemes of textile production processes; technological transitions of textile production. Independently determine the technological parameters of the main processes of spinning, weaving, knitwear and nonwovens.</p>														
ChD	ES	The Technology of Primary Processing of Textile Raw Materials	<p>The purpose: Formation and development of students' knowledge and skills on the basics of textile production technology, the design and specifics of textile equipment and textile materials science.</p> <p>Contents: Cotton gins and schemes of technological processes of primary processing of textile raw materials. Technical control at the cotton gin plant and cotton harvesting point. Equipment of auxiliary technological workshops. To study the sequence of technological processes for the production of textile fibers. To use reference literature in determining the physic - chemical properties of textile raw materials; to know the modes of primary processing of textile raw materials.</p>	5				v			v							
ChD	ES	Bases Production of Textile Raw Materials	<p>The purpose: Formation of students' knowledge, skills and abilities that provide them with a qualified solution to the tasks of organizing textile production, necessary materials for various textile products, improving the quality of products.</p> <p>Contents: To study the mechanization of labor-intensive work and automation of production processes. Substantiate the basic safety rules and fire prevention measures. Consider the optimal process of processing textile fibers.</p>					v			v							
BD	HSC	Educational	<p>The purpose: Consolidation and deepening of</p>	1				v			v			v				

				Practice	<p>the theoretical knowledge of the teacher, their acquisition of practical skills and competencies, as well as experience of independent professional activity.</p> <p>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.</p>													
Module of Technology and Equipment's of Textile Production	BD	EC	Technical Documentation of Textile Products	<p>The purpose: Formation of students' basic knowledge in the field of quality assessment and technical quality parameters in the production of textile materials and products, as well as knowledge and skills in the field of expertise and certification of textile products.</p> <p>Contents: The main regulatory documents that form the basis of regulatory support for textile industries. Laws, state standards, technical regulations, rules and recommendations, standards of a unified system of design documentation, a unified system of technological documentation, product classifiers.</p>	4		v						v					
	BD	EC	Normative and Technical Documentation in the Quality Management of Textile Products	<p>The purpose: Formation of students' basic knowledge in the field of quality assessment and technical quality parameters in the production of textile materials and products.</p> <p>Contents: The main issues of the introduction 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</p>			v						v					

				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	EC	Production Technology of Natural and Chemical Fibers	<p>The purpose: Study of the basic principles of technological processes for the production of natural and chemical fibers and nonwovens based on them.</p> <p>Contents: The role and importance of natural and chemical fibers in the national economy and the latest achievements in technology and technology. Assortment of natural fibers. Technology of production of fibers of plant origin. Production processes of bats and coarse-stemmed fibers. Technology of production of fibers of animal origin. Possess standard methods of physical and chemical analysis of natural and chemical fibers.</p>	5				v									
	BD	EC	Production Technology of Fiber-forming polymer	<p>The purpose: Formation of fundamental knowledge about the laws of synthesis and modern technologies for the production of fiber-forming polymers, about the laws of processing fiber-forming polymers into fibers in the processes of molding and orientation stretching.</p> <p>Contents: The main technological processes of the production of artificial fibers. Structure and testing methods of chemical fibers. Physico - chemical properties of fiber-forming polymers. To discuss modern technological processes for the production of chemical fibers and recommend optimal methods taking into account the specified production conditions.</p>					v									
	BD	EC	Technology of	The purpose: To master new technological	4				v	v		v						

			Spinning Production	<p>processes of cleaning, loosening, spinning, tapes, hoods, spinning of textile fibers in spinning production, the composition of the resulting threads, their physical and mechanical properties.</p> <p>Contents: Processes carried out on a baking and cleaning unit. The selection of fibers and the movement of fibers between machines. Mixing of components. Fluttering of the fibrous mass. Preparation of a carding tape. Belt machines of the world's leading manufacturers. Preparation of the comb tape. Methods of spinning. Compare the quality of finished products for compliance with the technical requirements stipulated in the standards and specifications.</p>													
	BD	EC	Spinning of Cotton and Chemical Fibers	<p>The purpose: Formation of professional knowledge that provides the possibility of their application in the design of modern technological processes for the production of chemical fibers with a high complex of physical, mechanical and consumer properties.</p> <p>Contents: Features of modern pneumomechanical spinning machines. Rotary spinning. Aeromechanical spinning. Friction spinning. Spinning wool. Wool spinning systems. Spinning machines for wool. Production of yarn from bats fibers. Flax spinning. Processing of chemical fibers and yarns. Production of textured yarns.</p>				v	v		v						
	BD	EC	Mechanical Technology of Textile Materials	<p>The purpose: To study the processes and equipment for the production of fiber, yarn, twisted yarn, fabric, knitwear, nonwovens and other textile products in the textile industry. Masters the general technological processes of the production of textiles, knitwear, nonwovens, and the principles of machine operation.</p> <p>Contents: Fundamentals of knowledge on the study of processes and equipment that ensure the production of yarn, twisted yarns, fabric,</p>	6				v		v	v					

				knitwear, nonwoven and other textiles and the formulation of conclusions when performing practical work in a group and individually.														
		BD	EC	Technology Equipment of the Industry	<p>The purpose: Formation of students' production and technical activities for mechanization and automation of technological processes.</p> <p>Contents: Independently perform technological calculations to determine the physical and mechanical characteristics of yarn, fabric, knitwear and linen, yarn and thread consumption, geometric characteristics of yarn.</p>				v	v	v							
	Module of General Technology and Service of Textile Production	BD	EC	Technology of Textile Production	<p>The purpose: Formation of students' principles and methods of technical control in production; influence of properties of raw materials and semi-finished products, parameters of technological equipment on product quality.</p> <p>Contents: Fundamentals of knowledge on the processing of fibers of plant, animal and other origin, on the production and finishing of fabrics, knitwear and nonwovens, as well as the study of processes and equipment that ensure the production of yarn, fabric, knitwear, nonwovens. Choose the desired structure of the fabric, as well as determine the conditions for its production on the loom.</p>	6			v	v	v							
		BD	EC	Innovative Technology of Textile Production	<p>The purpose: The 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.</p> <p>Contents: To know the development of trends in innovative technologies of textile production. 3D printing - getting a finished model from a</p>					v	v	v						

				special printer. Three-dimensional design technology. Creation of environmentally friendly technologies for dyeing and processing textile materials														
	BD	EC	General Technology of Cotton Production	<p>The purpose: Master the technology of primary processing of cotton, the processes of drying, cleaning, ginning, integration, pressing, laboratory determination of types and varieties of cotton fiber.</p> <p>Contents: To consider the main properties of cotton fiber and the relationship between the properties of natural fiber; to analyze the economic effect in the production of cotton fibers; to classify the technologies of cotton production; to explain the general technology for the production of cotton materials.</p>	4							v						
	BD	EC	Bases of Knitwear and Nonwovens Technology	<p>The purpose: Formation of students in the field of technology of knitwear and non-woven materials for technical purposes.</p> <p>Contents: To consider the assortment of textile materials for the manufacture of textile products; to determine the structure and properties of textile materials in laboratory conditions, to discuss the latest achievements in the technique and technology of production of knitwear and nonwovens, to know the production processes and methods of obtaining knitwear and nonwovens.</p>								v						
	ChD	EC	Bases of Resource-Saving Technologies of Textile Production	<p>The purpose: Formation of students in the field of resource-saving technologies of textile production.</p> <p>Contents: Features of modern pneumomechanical spinning machines. Progressive spinning methods, analyze the composition of regenerated spinning waste used for the production of medical gauze in order to comply with the quality indicators of cotton fiber</p>	4							v		v				

		ChD	EC	General Technology of Textile Materials	<p>The purpose: Formation of students about the processes of yarn production, harsh and ready-made fabrics, knitwear, nonwovens, equipment used, as well as the development of professional qualities.</p> <p>Contents: Production of single knitwear and basic knitwear. Production of double cross-knitted knitwear. Manufacture of hosiery.</p>								v		v			
		BD	EC	Service and Operation of Textile Equipment	<p>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.</p> <p>Contents: Use methods of disassembly, assembly and installation of equipment, methods of adjusting the actuators of machines. Know the current state of textile equipment enterprises. The specifics of technological processes of textile industry enterprises. Organization of operation, repair and installation of equipment. Safety precautions during maintenance and operation of textile equipment.</p>	5						v			v	v		
		BD	EC	Repair and Adjustment of Textile Machines	<p>The purpose: Master the repair and adjustment of textile machinery, replacement of worn parts, safety during maintenance and operation of textile production equipment.</p> <p>Contents: To know the rules of operation and maintenance of the textile equipment being operated and safety regulations. The main regulators. Wear of equipment parts, methods for detecting defects in 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</p>							v			v	v		

				from the navoi.																
		ChD	HSC	Industrial Practice I	<p>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.</p> <p>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 management of production, standardization and quality control of products and technical and economic indicators of production.</p>	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	<p>The purpose: To master the main types of textile materials; knowledge of the physico-chemical and mechanical properties of textile and knitted materials; evaluation of the range and quality of textile materials - comparison of the quality of textile materials and products using a standard; - to determine the properties, structure of textile materials and analyze the results of the master.</p> <p>Contents: Substantiate the procedure for conducting quality assessment, the sequence of operations for the formation of an average sample, determining the quality indicators of fabrics and canvases; identify defects and damage to goods.</p>	4				v	v	v								
		ChD	EC	Assortment Mobility of Textile Production	<p>The purpose: Evaluate the assortment, properties and quality of fibers, yarns and threads, fabrics and products.</p> <p>Contents: Classification of multicomponent textile yarns. Promising directions for expanding</p>					v	v	v								

				the range of multicomponent textile yarns. Analysis of new technological processes for the production of multicomponent yarn. To know the range of products for which the designed yarn is intended and to generalize knowledge on resource-saving technologies in the textile industry. Development of a methodology for predicting the breaking load of yarn obtained by the ring spinning method.														
	BD	EC	Design and Projecting of Textile Materials	<p>The purpose: Formation of creative, creative thinking and development of professional skills for the development of textile materials.</p> <p>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,</p>	5						v							v
	BD	EC	Artistic Decoration of Textile Materials and Products	<p>The purpose: Formation of artistic and design thinking, which develops in the process of systematic art education of design and design orientation; compositional solutions of design objects, mastering various methods of design graphics.</p> <p>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.</p>							v							v
	ChD	EC	Finishing and Dyeing of Textile Materials and Products	<p>The purpose: To justify the sequence of the location of the main and auxiliary equipment of finishing production.</p> <p>Contents: To evaluate the influence of various technological factors on the quality of coloring of</p>	5					v	v							

				manufactured products. Use technical means and methods to measure the main parameters of the technological process, the properties of raw materials and products; justify special types of finishes.														
		ChD	EC	Chemicalization of Technological Processes of Textile Production	<p>The purpose: Study of the current state of the raw material base of the textile industry, chemical and technological finishing processes.</p> <p>Contents: The main directions of chemicalization of technological processes in the textile industry, polymer materials and fibers used in the manufacture of textile products; substantiate the composition of chemicals for chemicalization of textile products and materials; observe safety precautions when working with chemicals; consider technological parameters for chemicalization of textile materials and products.</p>				v	v								
	Design of Textile Materials and Production module	ChD	EC	Design of Fibrous Materials	<p>The purpose: Formation of students' complex of knowledge and skills in the field of technology of fibrous materials for the purpose of their wide application in carrying out scientific and technological using modern instrumentation.</p> <p>Contents: Designing the composition of fiber mixtures and cotton spinning technology for all technological processes. Know the methods of designing fibers and yarn according to the specified parameters and properties of fibers and yarn.</p>	4			v	v		v						
		ChD	EC	Design of Yarns and Threads	<p>The purpose: Formation of students in the field of technological processes of yarn and thread production.</p> <p>Contents: Increase in yarn yield without deterioration of its quality by increasing the efficiency of fiber cleaning processes, the effect of fiber properties on yarn properties, fiber spinning ability; yarn yield from the mixture;</p>				v	v	v							

				properties of yarn from fibers of various origin; mixing; preparation of single yarn; spinning machines.															
		ChD	EC	Planning of Cotton-Spinning Factories	<p>The purpose: Formation of students' production and technological, organizational and managerial, design and research activities in the field of processing of natural and chemical fibers.</p> <p>Contents: Able to choose and apply progressive resource-saving technologies aimed at reducing the operations of technological processes, the consumption of raw materials, increasing labor productivity and be able to choose the optimal solution.</p>	5			v							v			v
		ChD	EC	Planning of Mills for Primary Processing of Natural and Chemical Fibers	<p>The purpose: Formation of students in the field of designing plants for the primary processing of natural and chemical fibers.</p> <p>Contents: The use of chemical fibers mixed with natural fibers in order to improve the consumer properties of textile products. Have fixed theoretical and practical knowledge.</p>				v							v			v
		ChD	HSC	Industrial Practice II	<p>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.</p> <p>Contents: Able to independently control and analyze the technological process at textile industry enterprises. Consolidation of theoretical and practical knowledge gained by students in the study of specialization disciplines.</p>	6												v	v
	Module of Modern Technologies and	ChD	EC	Ecological Safety of Textile Production	<p>The purpose: Formation of students with a complex of knowledge and practical skills in the field of environmental safety of textile production.</p>	5										v	v		

		ChD	EC	Innovative Technology of Spinning Production	<p>The purpose: Formation of students with a complex of knowledge and practical skills in the field of spinning production.</p> <p>Contents: Purpose, assortment and use of twisted textiles, the effect of twisting intensity on the properties of yarn. To analyze the work and feasibility study of the advantages of innovative twisting equipment, methods of double twisting, reels, utopia of self-winding methods of fixing yarn. Theoretical analysis of the principle of two-stage torsion, analysis of the operation of machines of a two-stage yarn torsion system.</p>							v				v			
	Module of Planning Technological Processes of Textile Production	ChD	EC	Technology of production of textile materials with functional properties	<p>The purpose: To prepare students with in-depth knowledge and practical skills in the field of production of textile materials with functional properties.</p> <p>Contents: The concept and classification of textile materials with functional properties. Prospects for the development of the production of textile materials with functional properties. The importance and objectives of the production of textile materials with functional properties. Physical-chemical fundamentals of the production of textile materials with functional properties.</p>	6						v					v		
		ChD	EC	Optimization and Intensification of Natural and Chemical Fibers Production Processes	<p>The purpose: Formation of students with a complex of knowledge and practical skills in the field of optimization and intensification of the processes of production of natural and chemical fibers.</p> <p>Contents: Intensification of the main processes of production of natural and chemical fibers and yarn. Ensuring the efficiency of technological processes for the production of both natural and chemical fibers and yarn, their mutual influence on the quality of finished products.</p>								v				v		

				Intensification of the technological process of formation of natural and chemical fibers and yarn on modern equipment.														
ChD	EC	Optimization and Intensification of Weaving Production Processes	<p>The purpose: Formation of students with a complex of knowledge and practical skills in the field of optimization and intensification of the processes of weaving production.</p> <p>Contents: Mastering the basic principles of solving optimization problems based on the developed mathematical models related to various existing technological processes and newly developed technologies. In order to effectively carry out technological processes for the production of textile materials, they must be optimized in order to increase productivity, reduce energy costs, labor intensity and raw materials.</p>	6				v			v							
ChD	EC	Computerization of Technological Processes of Textile Production	<p>The purpose: Formation of students' competent solutions for computerization of production at textile enterprises of various types.</p> <p>Contents: Computer technology in the textile industry. Automatic systems of primary processing of raw materials of fibers. Computer calculation of the composition of complex yarn. Digital technology in determining the structure and analysis of yarn. Determination of yarn quality on digitally controlled devices. Software tools for computer modeling.</p>					v			v							
BD	ES	Scientific Research Work	<p>The purpose: Training in conducting scientific research in the field of textile production.</p> <p>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</p>	6											v	v		

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

Course of Study	Semester	The number of mastered modules	The number of studied disciplines			Number of KZ credits					Total hours Compulsory component	Total KZ credits University component	The number of	
			Compulsory component	University component	Optional component	Theoretical training	Physical education	Educational practice	Industrial, pre-graduate practice	Final certification			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
Total		31	9	7	26	203	8	1	20	8	7200	240	40	9

6. LEARNING STRATEGIES AND METHODS, MONITORING AND EVALUATION

Learning strategies	<p>Student-centered learning: The student is the center of teaching/learning and an active participant in the learning and decision-making process.</p> <p>Practice-oriented learning: focusing on the development of practical skills.</p>
Teaching methods	<p>Conducting lectures, seminars, various types of practices:</p> <ul style="list-style-type: none"> • 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; • Bloom's taxonomies; • presentations; • rational and creative use of information sources: • multimedia training programs; • electronic textbooks; • digital resources. <p>Organization of independent work of students, individual consultations.</p>
Monitoring and evaluation of the achievability of learning outcomes	<p>Current control on each topic of the discipline, control of knowledge in classroom and extracurricular classes (according to syllabus). Assessment forms:</p> <ul style="list-style-type: none"> • survey in the classroom; • testing on the topics of the discipline; • control jobs; • protection of independent creative works; • discussions; • trainings; • colloquiums; • essays, etc. <p>Boundary control at least twice during one academic period within the framework of one academic discipline.</p> <p>Intermediate certification is carried out in accordance with the working curriculum, academic calendar.</p> <p>Forms of holding:</p> <ul style="list-style-type: none"> • exam in the form of testing; • oral exam; • written exam; • combined exam; • project protection;

	<ul style="list-style-type: none">• protection of practice reports. Final state certification.
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7. EDUCATIONAL AND RESOURCE SUPPORT OF THE EP

Information Center	Resource	<p>Information and educational portal "PROFESSOR" 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.).</p> <p>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.</p> <p>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 and traditional (card). The total volume of the electronic catalog is 151513 bibliographic entries. The electronic catalog of the OIC is presented on the website http://lib.ukgu.kz.</p> <p>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".</p>
Material and technical base		<p>The educational program 6B07260 "Technology and design of textile materials" is equipped in accordance with the requirements of the necessary classroom fund, educational laboratories, computer classes, instruments and equipment for laboratory scientific experiments.</p> <p>Laboratories are equipped with a large number of equipment</p>

	<p>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.</p>
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AGREEMENT SHEET

by Education Program code 6B07260 – «Technology and Design of Textile Materials»

Director of DAA



Sign

Naukenova A. S.

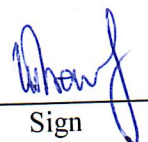
Director of DASc



Sign

Nazarbek U.B.

Director of DE&C



Sign

Bazhirov T. S.

Review from the employer

of educational program 6B07260 - "Technology and Design of Textile Materials" developed in SKU named after M. Auezov, Shymkent

Brief description of the company and the profile of its activities. The textile plant LLP "HBP Talapty", with a production capacity of more than 2,800 tons of yarn and 14 million linear meters of finished and rough fabric per year, is located in the city of Shymkent, South Kazakhstan Region. Due to the excellent quality of products, the plant is not only one of the leaders of Kazakhstan's light industry, but also positions itself as an international brand - a manufacturer of cotton products of the highest level, which are exported to Lithuania, Latvia, Germany, Italy, Poland, as well as to neighboring countries.

Today cotton plant LLP "HBP Talapty" produces a wide range of products. These are finished trimmed fabrics, terry and waffle towels and sheets, bedding sets, bed linen of all standard sizes, towels, sheets, pillowcases, duvet covers, children's textiles, as well as harsh yarn (100% cotton), harsh fabrics (100% cotton, smooth, terry, wafer). Textiles and integrated products are also produced here.

Learning outcomes and competencies, their relationship with the demands of the labor market. SKU them. M. Auezov is aimed at training highly qualified specialists demanded on the labor market, integrating the university into the global educational environment, a breakthrough in the quality and effectiveness of research and innovation, decent positioning of the university in domestic and international universities.

The university strategy provides for improving the quality of educational services in all areas of activity, further work on the principles of total management and the implementation of the unity of the educational, scientific and educational process, allowing to make a worthy contribution to the industrial-innovative development of the country.

Activities of SKU them. M. Auezov is based on the concept of creating a complex of continuing professional education that meets the requirements of the Bologna process and is entered by active scientific research at all stages of education - from higher and postgraduate to professional retraining and advanced training of personnel.

The presence of components that develop practical skills. The practice of undergraduate students is an obligatory form of the educational process, it consolidates theoretical knowledge and conducting classes at the enterprise allows students to acquire practical skills and serves as training for their professional adaptation in the workplace in the future. The themes of the undergraduate and

graduate bachelor's studies, and the students' educational research work were also coordinated with the representatives of the enterprises.

Conclusion on the EP 6B07260 - "Technology and Design of Textile Materials". The program structure is logical, consistent and ensures their achievement.

Director of LLP "HBP Talapty"



Dyisenbaev M.T

Expert opinion

for the educational program 6B07260 - "Technology and Design of Textile Materials", developed by the Department of "Technology and Design of textile materials" of M. Auezov SKU, Shymkent, Republic of Kazakhstan

"Technology and Design of Textile Materials" 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 6B07260 - "Technology and Design of Textile Materials", 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 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, CURRI CULUM 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 6B07260 - "Technology and Design of Textile Materials" fully meets the requirements of the State Educational Standard.

As a result of mastering the educational program, the graduate will receive the awarded Bachelor of Engineering and Technology degree in the educational program 6B07260 - "Technology and Design of Textile Materials"

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 the development of the educational program, the graduate will receive the qualification of a Bachelor of technology technician.

Having familiarized with this educational program 6B07260 - "Technology and Design of Textile Materials", experts believe that it meets all the requirements for the training of highly qualified bachelors in EP 6B07260 - "Technology and Design of Textile Materials".

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.