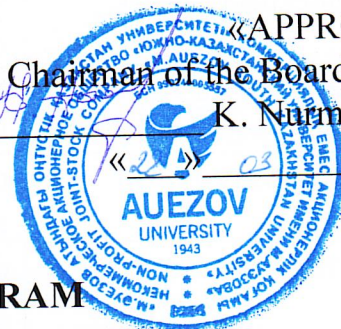


MINISTRY OF SCIENCES AND HIGHER EDUCATION OF THE REPUBLIC
OF KAZAKHSTAN
M.O. AUEZOV SOUTH KAZAKHSTAN UNIVERSITY

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



EDUCATIONAL PROGRAM


8D07206 - Technology and design of textile materials

Registration Number	8D07200002
Code and Classification of Education	8D07 "Engineering, manufacturing and civil engineering"
Code and Classification of Areas of Training	8D072 "Manufacturing and processing"
Group of educational programs (EP)	D114 textiles: clothing, footwear and leather products
Type of EP	Acting Educational Program;
ISCE level	8
NQF level	8
IQF level	8
Language learning	English
The complexity of EP	180 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.U.	Associate Professor, candidate of technical sciences	
Yeldiyar G.K.	Doctor PhD, senior lecturer	
Abdikerimov S.Zh.	Senior lecturer, candidate of technical sciences	
Bektursunova A. K	Doctor PhD, senior lecturer	
Sabyrkhanova S.	Doctor PhD, senior lecturer	
Zhambylbay A.	doctoral student of the DLP – 22-3nk group	
Murzabaeva G.	doctoral student of the DLP – 21-3nk group	
Karakulov N.S.	director of "Bal decor" LLP»	
Iskhakhov T. Zh.	director of Bal Textile LLP	
Baynurov A.	director of TEXTILE GROUP KZ LLP	

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

Chairman of the Committee  Khanzharov N.

The EP was considered and recommended for approval at Educational-methodical meeting of M. Auezov SKU Minutes # 4 «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.

1. PASSPORT of the Educational program

Purpose of the EP	Preparation of PhDs for scientific, pedagogical and professional activities, capable of solving issues of improving production, science, education and the development of new technologies in the field of the textile industry.
Tasks of the EP	<ul style="list-style-type: none"> - forming personal qualities for management, analytical, consulting and teaching activities in textile production. - development of the doctoral students strong analytical, research and leadership skills that will solve competitive problems in the modern economy; - management of modern information technologies, computer programs and knowledge of the basic principles of product promotion to the global market; -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	<ul style="list-style-type: none"> • 8 th level of the National Qualifications Framework of the Republic of Kazakhstan; • Dublin descriptors of the 8 th level of qualification; • 3 cycle of a Framework for Qualification of the European Higher Education Area); • 8th Level of European Qualification Framework for Lifelong Learning).
Connection of EP with the professional sphere	The industry qualifications framework for "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, chemical, construction and woodworking industries, light industry and mechanical engineering dated August 16, 2016 No. 1.
Name of the degree awarded	Persons, who have mastered the EP of doctoral studies and defended a doctoral dissertation, with a positive decision of the dissertation councils of the OHPE with a special status or the Committee for Quality Assurance in Education and Science of the Ministry of Science and Higher Education of the Republic of Kazakhstan, are awarded the PhD degree on the EP «8D07206 - Technology and design of textile materials
List of qualifications and positions	Can hold primary positions of the President of the enterprise, General Director (research institutions, design organizations) without presenting requirements for work experience in accordance with the qualification requirements of 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 Republic of Kazakhstan dated December 30, 2020 № 553.

Field of professional activity	<p>The sphere of professional activity is:</p> <ul style="list-style-type: none"> – educational activities in higher, vocational and technical educational institutions of technical profile, – scientific and management activities in research centres, research institutes, units of the State Enterprise Management Authority and the non-public sector; – management activities in the structural units of the Ministry of industry and infrastructure development of Kazakhstan, Akimats of district, city and regional level, and the textile industry. Doctoral students of this profile should analyze the production state of the company, enterprises, to increase revenues, minimize costs and risks, to meet the needs of the market in the provision of quality textile products and services.
Objects of professional activity	<p>The objects of professional activity of graduates are: state bodies of the national and territorial level: the Ministry of industry of infrastructure development of Kazakhstan, budget institutions and enterprises, as well as research organizations, educational institutions (colleges, universities).</p>
Subjects of professional activity	<p>The objects of professional activity of graduates are: state bodies of the national and territorial level: the Ministry of industry of infrastructure development of Kazakhstan, budget institutions and enterprises, as well as research organizations, educational institutions (colleges, universities).</p>
Types of professional activity	<ul style="list-style-type: none"> - in the field of scientific and scientific-pedagogical activity in the conditions of rapid updating and rapid growth of information flows of programs; - theoretical and experimental studies; - theoretical and applied problems in technological research of textile production and their solution; - problems of pedagogical training of students at the University; - professional and comprehensive analysis of problems in the field of textile production - plan and predict their further professional development
Learning outcomes	<p>LO1 Demonstrates a systematic mastery of modern pedagogical technologies and teaching methods in the system of higher and postgraduate education and the strengthening of writing skills and critical thinking necessary for effective academic writing.</p> <p>LO2 Demonstrate an understanding of the principles and methods of modeling, optimization of design processes and technological processes for the production of textile materials of various assortments.</p> <p>LO3 To find the best solutions when creating textile products with innovative technologies, taking into account quality requirements.</p> <p>LO4 Predict the assortment of products of the enterprise for the production of textile materials and products, depending on the</p>

	<p>needs of the market.</p> <p>LO5 Organize technological schemes and initial data for the design of textile materials using modern automated control systems and computer programs.</p> <p>LO6 Demonstrates modern methods of scientific research and research skills in the field of textile technology.</p> <p>LO7 Promotes the promotion of innovative technologies for the production of textile materials and products.</p> <p>LO8 Demonstrates professional knowledge and skills to monitor and ensure resource-saving technologies in the textile industry.</p> <p>LO9 Offer engineering calculations, technological schemes and initial data for the design of textile materials.</p>
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3. COMPETENCES OF EP GRADUATE

GENERAL COMPETENCES (SOFTSKILLS). Behavioral Skills and Personal Qualities	
Competence in managing one's own literacy(self-learning and systems thinking; trans disciplinary and cross-functionality)	GC 1 Ability to solve problems of their own professional and personal development;
Language competence	GC 2 Ability to possess the skills of scientific communication in a foreign language, competent communication in scientific and professional activities.
Mathematical competence and competence in the field of science	GC 3 Ability to professionally use information technology for mathematical processing of scientific data, communication and exchange.
Digital competence, technological literacy	GC 4 Ability to be productive in the subject area on the basis of information and computer technologies, relying on existing experience and constantly improving and expanding its boundaries.
Personal, social and academic competencies	GC 5 Ability to creatively analyze and evaluate modern scientific achievements, modern problems and prospects of socio-economic development of Kazakhstan;
Entrepreneurial competence	GC 6 Ability to develop creative and entrepreneurial skills of the team, to be prepared for the implementation of management functions and to solve professional problems in the interests of the organization as a whole based on a deep understanding of the features of the market economy, the functions and economic role of the state;
Cultural awareness and self-expression	GC 7 Ability to demonstrate awareness of social responsibility and commitment to civilized ethical standards of behavior in scientific work and business.
PROFESSIONAL COMPETENCES (HARDSKILLS). Theoretical knowledge and practical skills specific to this field.	
Theoretical knowledge and practical skills and abilities specific to this direction	General professional (PC-1); - the ability to develop and implement technologies for the manufacture of textile products with the use of modern science and innovative technology in research and development at enterprises;
	Efficient use of raw materials, materials and equipment (PC-2); - ability to carry out a feasibility study of innovative projects, to develop an effective strategy and to form

	<p>an active policy of risk management in the enterprise;</p> <p>Production and technological activity (PC-3):</p> <ul style="list-style-type: none"> - the ability to understand the current problems of scientific and technical development of the raw material base, innovative technologies for waste management of the textile industry, scientific and technical policy in the field of technology and design of textile materials and products; <p>Organizational and management activities (PC-4):</p> <ul style="list-style-type: none"> - ability to control technological processes of production of high-quality textile materials and products, to carry out parametric, structural optimization of technology and to make an assessment of quality, cost assessment of the main production resources; <p>Research activities (PC-5):</p> <ul style="list-style-type: none"> - the ability to use the latest achievements of science and advanced technology in the production of textile materials and products in research, to set research objectives, to choose methods of experimental work, to perform, analyze, interpret and present the results of scientific research of textile materials and their manufacturing processes. <p>Project activity (PC-6):</p> <ul style="list-style-type: none"> - the ability to apply information technology in the design of new textiles and products, manages the implementation of new product and technology development programs, organizes their production in production conditions in accordance with the author's samples, compiles the necessary set of technical documentation <p>Pedagogical activity (PC-7):</p> <ul style="list-style-type: none"> - mastery of basic methods of pedagogical skill (to know age psychology, laws of pedagogy, to have an idea of teaching methods); <p>knowledge of the legal aspects of the educational process in education; the ability to organize work on the planning of the educational process and the implementation of methodical work, independently conduct lectures or workshops.</p>
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3.2 MATRIX OF CORRELATION OF EP LEARNING OUTCOMES IN GENERAL WITH MODULES FORMED BY COMPETENCIES

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9
GC 1	+	+							
GC 2			+		+			+	
GC 3						+	+		
GC 4		+					+	+	+
GC 5			+		+				+
GC 6	+			+					
GC 7	+				+				
PC 1				+					
PC 2		+			+				+
PC 3			+						
PC 4				+	+				
PC 5	+					+			
PC 6					+		+		
PC 7		+						+	

4. Matrix of the influence of disciplines on formation of learning outcomes and information on labor intensity

№	Module name	CYCLE	Component	Component name	Brief course description (in 30-50 word)	Number of credits	Formed learning outcomes (codes)									
							LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	
	Innovative technologies and design of scientific bases of production of knitted products	BD	UC	Academic writing	<p>The purpose: Formation and strengthening of writing and critical thinking skills necessary for effective academic writing.</p> <p>Contents: Considers issues of improving the level of written communication, acquiring the necessary writing skills. It consists of stages: planning, writing, editing and reviewing. The structure of the manuscript includes title, membership of the authors, abstract, keywords, introduction, materials and methods, results and discussions, conclusion and references. Strengthens professional skills of analytical thinking, creativity when presenting the results of scientific research in print.</p>	3	v			v		v				
		BD	UC	Research methods	<p>The purpose: The formation of doctoral students' correct ideas about the principles of scientific research, in particular, as well as the formation of academic writing skills in them, essential for the successful execution and writing of research papers and dissertations.</p> <p>Contents: To teach understanding of the main problems of the development of science and the production of textile industry goods; conducting research activities in the field of textile production related to the selection of necessary research methods, conducting experimental studies and analyzing their results using information technology, conducting scientific research based on modern achievements of</p>	4	v		v					v		

					domestic and foreign scientists.										
		BD	EC	Innovative Technologies in Spinning, Weaving and Knitting Production	<p>The purpose: To study the main methods of optimization of technological processes of spinning, weaving and knitting industries, as well as in the production of nonwovens.</p> <p>Contents: Knowledge and understanding of the basic laws of the development of technological processes and the formation of technological systems in the production of textile materials and products based on the latest achievements of science and technology; innovative technologies for the production of textile fibers, yarns, fabrics, knitted and non-woven fabrics; innovative technologies for special types of finishing textile materials; principles of creating waste-free textile industries.</p>	6			v		v				v
		BD	EC	Scientific basis for the creation of resource-saving technologies in the textile industry	<p>The purpose: Formation of doctoral students' skills in organizing resource-saving processes at the enterprise and the ability to apply them in professional activities.</p> <p>Contents: Formation of knowledge and skills of detailing production costs, an integrated approach to solving issues of reducing the cost of production while maintaining or improving the quality level, making the right decisions in conditions of changing prices for individual components of the cost of production Innovative technologies that ensure resource conservation and high quality of textile materials.</p>				v		v				v
				Pedagogical practice	<p>The purpose: The study of the basics of educational and methodological work in higher educational institutions, mastering the pedagogical skills of conducting certain types of training sessions in the disciplines of the profile of doctoral programs.</p> <p>Contents: Pedagogical practice is designed to</p>	10	v								v

					provide a link between the theoretical knowledge gained during the assimilation of the theoretical educational program and practical activities for the introduction of this knowledge into the educational process. The main idea of the practice is the formation of technological skills related to pedagogical activity.										
	Achievements in the field of textile raw materials processing	BD	UC	Scientific bases of design of structure and properties of textile materials	<p>The purpose: Acquisition by doctoral students of comprehensive knowledge about the production of textile fibrous materials, their properties, applications and advanced technologies for preparing fibers for their processing into yarn, fabrics, nonwovens.</p> <p>Contents: Knowledge and understanding of the sequence of stages of designing parameters in technology, establishing the relationship between the parameters of the structure and properties of materials, the methodology for evaluating the design of the intensity and efficiency of processes, methods for designing the parameters of individual processes and their totality in production, ensuring the production of textile materials of a given quality, with good technical and economic indicators.</p>	6	v			v		v			
		PD	EC	Mathematical modeling and optimization of technological processes of textile production	<p>The purpose: To form the competencies of doctoral students in the field of modeling and optimization of technological processes of textile production.</p> <p>Contents: Methodological and mathematical training for solving problems of modeling and optimization of managerial and technological processes of Textile production, understanding the principles and methods of modeling and optimization of design processes and technological processes of production of textile materials of various assortment. Development of</p>	6					v		v		v

				practical skills of formalization of initial information and construction of models of objects, system-structural analysis of objects and processes of the textile industry.										
		PD	EC	Computer technologies in textile production	<p>The purpose: To form the competencies of doctoral students in the field of application of information technology and computer technology in the production of textiles.</p> <p>Contents: Knowledge and understanding of modern computer technologies used in solving professional tasks; mastering the theoretical and practical foundations of using modern general and special purpose applied software; formation and development of students' professional skills in computer technology to solve a wide range of tasks, processing experimental data, technical documentation and performing technological calculations of textile production.</p>		v			v		v		
				Research Practice	<p>The purpose: Formation of professional competence necessary for successful research activities in modern conditions among doctoral students.</p> <p>Contents: The doctoral student's research practice is conducted in order to study the latest theoretical, methodological and technological achievements of domestic and foreign science, as well as to consolidate practical skills in applying modern methods of scientific research, processing and interpretation of experimental data in dissertation research. It contributes to the formation of the competence of doctoral students in the field of scientific research of current problems and solving professional problems.</p>	10	v		v					
	Module of final certification			Research Work of a Doctoral Student,	<p>The purpose: Formation of general cultural and professional competencies necessary for conducting both independent research work, the</p>	123		v			v		v	v

**5. A SUMMARY TABLE SHOWING THE VOLUME OF LOANS IN THE
CONTEXT OF THE MODULES OF THE EDUCATIONAL PROGRAM**

Course of Study	Semester	The number of mastered	The number of studied disciplines		Number of credits KZ					Total hours	Total loans Kz	amount	
			UC	CC	Theoretical training	Pedagogical practice	Research practice	Scientific research work	Final certification			exam	diff.s core
1	1	5	3	2	25			5		900	30	5	1
	2					10		20		900	30		2
2	3						10	20		900	30		2
	4							30		900	30		1
3	5							30		900	30		1
	6							18	12	900	30		1
TOTAL		5	3	2	25	10	10	123	12	5400	180	5	8

6. STRATEGIES AND METHODS OF TRAINING, MONITORING AND EVALUATION

<p>Learning Strategies</p>	<p>Student-centered learning: the learner is the center of teaching/learning and an active participant in the learning and decision-making process.</p> <p>Practice-oriented learning: focus on the development of practical skills.</p>
<p>Teaching methods</p>	<p>Conducting lectures, seminars, various types of practices:</p> <ul style="list-style-type: none"> • application of innovative technologies: • problem learning; • case study; • work in a group and creative groups; • discussions and dialogues, intellectual games, competitions, quizzes; • methods of reflection, projects, benchmarking; • Bloom's taxonomy; • presentations; • rational and creative use of information sources: • multimedia educational programs; • electronic textbooks; • digital resources. <p>Organization of independent work of students, individual consultations.</p>
<p>Monitoring and assessing the achievability of learning outcomes</p>	<p>Current control on each topic of the discipline, control of knowledge in classroom and extracurricular activities (according to the syllabus). Assessment Forms:</p> <ul style="list-style-type: none"> • survey in the classroom; • testing on the topics of the academic discipline; • test papers; • protection of independent creative works; • discussions; • trainings; • colloquia; • essays, etc. <p>Midterm control at least two times during one academic period within the same academic discipline.</p> <p>Intermediate certification is carried out in accordance with the working curriculum, academic calendar. Conduct forms:</p> <ul style="list-style-type: none"> • exam in the form of testing; • oral exam; • a written exam; • combined exam; • protection of projects; • protection of practice reports. <p>Final state certification.</p>

EDUCATIONAL AND RESOURCE SUPPORT OF THE EP

<p>Information Resource Center</p>	<p>Information and educational portal "PROFESSOR" www.portal.ukgu.kz provides information about the educational process at SKU. Thanks to an efficient search system, it is possible to obtain information related both personally to the undergraduate, such as lists of classes, exam schedules by semesters, academic performance, teaching materials for the current semester, and in general for the university (data about faculties, teachers, etc.).</p> <p>The library website http://lib.ukgu.kz is an indicator of the level of information service. The site has a wide range of reference and bibliographic apparatus of the library, bulletins of new acquisitions, new publishers, virtual exhibitions, news feed and other services. At the request of students and teachers, thematic collections of Internet resources are formed. For teachers, undergraduates and applicants there is a section "Information for scientists", which presents the requirements for educational, scientific and reference publications in accordance with GOSTs; rules for the design of lists of references; list of periodicals and scientific and technical publications of the Republic of Kazakhstan, recommendations for determining the citation index.</p> <p>Users are provided with a modern reference and bibliographic apparatus: Electronic catalogue, Electronic card index of articles, Electronic card index of abstracts of dissertations. Work with catalogs is carried out in two forms: electronic and traditional (card). The total volume of the electronic catalog is 151513 bibliographic records. The electronic catalog of the JIC 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: "Proceedings of the teaching staff of SKSU named after. M. Auezov", "Electronic Archive", "AlmaMater" and others, which since 2017 have been combined into a single search system for ease of search. Opened on-line access to databases: "SpringerLink", "Scopus", "Polpred", "Thomson Reuters ISI Web of Science", "ScienceDirect", "EBSCO", to Kazakhstani databases: "KazPatent", "Epigraph" , "Zan", "RMEB".</p>
<p>Material and technical base</p>	<p>The educational program 8D07206 - Technology and design of textile materials, equipped in accordance with the requirements with the necessary classroom fund, educational laboratories, computer classes, instruments and equipment for performing laboratory scientific experiments</p> <p>Laboratories are equipped with a large number of equipment and devices: Haisen china HS 808 M and Haisen china HS 808 P automatic hosiery knitting machines, Haisen china HS 305 automatic glove knitting machine, 1603 Textima combing machine , tape machine "LMSH-220-1T", wrapping machine "Merrylock", sewing machine "Bernette", knitting machine</p>

	<p>"Silver" SK-280, tearing machine RM 3-1, laboratory electronic scales Adventurer, microscope XSZ-137B, drying ShS-80 cabinet, VUS MT 250 centrifuge, VUS MT 250 moisture meter, ShS-80 drying cabinet, MV-4M aspiration psychomotor, WT torso scales, analytical scales, thermostats, refrigerator, water baths. Laboratories are equipped with personal protective equipment, first aid kits, means of extinguishing a fire (fire extinguisher), equipped with fume hoods.</p>
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AGREEMENT SHEET

according to the Educational program
“8D07206 - 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 8D07206 - "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 acquire practical skills and serves as training for their professional adaptation in the workplace in the future. The themes of the undergraduate and graduate

Expert opinion

for the educational program 8D07206 - "Technology and Design of Textile Materials", developed by the Department of "Technology and Design of Textile materials" of M. Auezov South Kazakhstan University, Shymkent, Republic of Kazakhstan

The educational program 8D07206 - "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 doctoral students corresponding to all 8 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 doctoral students studying. It also fully corresponds to the qualification framework of the Republic of Kazakhstan.

The reviewed educational program (hereinafter referred to as the EP) in the direction of training 8D07206 - "Technology and Design of Textile Materials", is a system of documents developed on the basis of the State Mandatory Standard of Education of the Republic of Kazakhstan (hereinafter referred to as the SES), as amended by Order of the Ministry of Education and Science of the Republic of Kazakhstan No.21 19.01.2023

Learning outcomes and competencies, their relationship to the demands of the labor market. SKU named after M. Auezov 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 doctoral students 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 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 SES, TUPI and TUPr. 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 8D07206 - "Technology and Design of Textile Materials" 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 degree of Doctor of Philosophy PhD in the educational program 8D07206 - "Technology and Design of Textile Materials".

Having familiarized with this educational program 8D07206 - "Technology and Design of Textile Materials", experts believe that it meets all the requirements for the training of highly qualified doctoral students in 8D07206 - "Technology and Design of Textile Materials".

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