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MINISTRY OF SCIENCES AND HIGHER EDUCATION OF THE REPUBLIC OF  
KAZAKHSTAN

M.O. AUEZOV SOUTH KAZAKHSTAN UNIVERSITY

«APPROVED»

Chairman of the board -

Rector

Doctor of historical sciences.

Academician, Kózhamzharova D.P.

«24» 08 2022




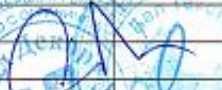


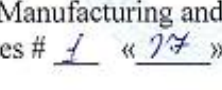
**Educational program**

**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) -	-

Shymkent, 2022

Developers:

Full Name	Position	Signature
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The EP was considered in the direction of training 8D072 "Manufacturing and processing" at a meeting of the academic committee, Minutes # 1 «27» 08 2022 y.

Chairman of the Committee  Khanzharov N.S.

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

Minutes # 1 «24» 06 2022 y.

The EP was approved by the decision of the Academic Council of the University

Minutes # 1 «27» 08 2022 y.

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## 1. CONCEPT OF THE PROGRAM

<b>University Mission</b>	Generation of new competencies, training of a leader who translates research and entrepreneurial thinking and culture
<b>University Values</b>	<ul style="list-style-type: none"> <li>• Openness—open to change, innovation and cooperation.</li> <li>• Creativity – generates ideas, develops them and turns them into values.</li> <li>• Academic freedom – free to choose, develop and act.</li> <li>• Partnership – creates trust and support in a relationship where everyone wins.</li> <li>• Social responsibility – ready to fulfill obligations, make decisions and be responsible for their results.</li> </ul>
<b>Graduate Model</b>	<ul style="list-style-type: none"> <li>• Deep subject knowledge, their application and continuous expansion in professional activity.</li> <li>• Information and digital literacy and mobility in rapidly changing conditions.</li> <li>• Research skills, creativity and emotional intelligence.</li> <li>• Entrepreneurship, independence and responsibility for their activities and well-being.</li> <li>• Global and national citizenship, tolerance to cultures and languages.</li> </ul>
<b>The uniqueness of the educational program</b>	<ul style="list-style-type: none"> <li>• a high level of theoretical training in the field of technical and professional disciplines, taking into account the trends of modern social development, the inclusion in the educational process of leading domestic and foreign specialists in the field of training highly qualified personnel;</li> <li>• training of professional managers, teachers and specialists for the textile industry, ensures that graduates acquire the competencies of a master of technical sciences, the ability to think outside the box and bold original solutions.</li> <li>• EP of scientific and pedagogical magistracy 7M07260-"Technology and design of textile materials" was accredited by the Independent International Agency ASIIN (Germany) in 2014.</li> </ul>
<b>Academic Integrity and Ethics Policy</b>	<p>The University has taken measures to maintain academic integrity and academic freedom, protection from any kind of intolerance and discrimination:</p> <ul style="list-style-type: none"> <li>• Rules of academic integrity (Minutes of the Academic Council No. 3 dated 30.10.2018);</li> <li>• Anti-Corruption Standard (Order No. 373 n/k dated 27.12.2019).</li> <li>• Code of Ethics (Protocol of the Academic Council No. 8 dated 31.01.2020).</li> </ul>
<b>Regulatory and legal framework for the development of EP</b>	<ol style="list-style-type: none"> <li>1. Law of the Republic of Kazakhstan "On Education" (as amended and supplemented as of 04.07.2018);</li> <li>2. Standard rules of activity 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</li> <li>3. State obligatory standards of higher and postgraduate education,</li> </ol>

	<p>approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 604;</p> <p>4. Rules for organizing the educational process on credit technology of education, approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 with amendments and additions dated October 12, 2018 No. 563</p>
<b>Organization of the educational process</b>	<ul style="list-style-type: none"> <li>• Implementation of the principles of the Bologna Process</li> <li>• Student-centered learning</li> <li>• Availability</li> <li>• Inclusivity</li> </ul>
<b>Quality assurance of the Educational program</b>	<ul style="list-style-type: none"> <li>• Internal quality assurance system</li> <li>• Involvement of stakeholders in the development of the Educational Program and its evaluation</li> <li>• Systematic monitoring</li> <li>• Actualization of the content (updating)</li> </ul>
<b>Requirements for applicants</b>	<p>It is established according to the Model Rules for admission to training in educational organizations, implementing educational programs of higher and postgraduate education, Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated 31.10.2018</p>

## 1. PASSPORT of the Educational program

<b>Purpose of the EP</b>	Preparation of PhD doctors for scientific, pedagogical and professional activities, capable of solving issues of improving production, science, education and developing new technologies in the field of the textile industry.
<b>Tasks of the EP</b>	<ul style="list-style-type: none"> <li>- forming personal qualities for management, analytical, consulting and teaching activities in textile production.</li> <li>- development of the doctoral students strong analytical, research and leadership skills that will solve competitive problems in the modern economy;</li> <li>- management of modern information technologies, computer programs and knowledge of the basic principles of product promotion to the global market;</li> </ul>
<b>Harmonization of EP</b>	<ul style="list-style-type: none"> <li>• 8<sup>th</sup> level of the National Qualifications Framework of the Republic of Kazakhstan;</li> <li>• Dublin descriptors of the 8<sup>th</sup> level of qualification;</li> <li>• 3 cycle of a Framework for Qualification of the European Higher Education Area);</li> <li>• 8<sup>th</sup> Level of European Qualification Framework for Life long Learning).</li> </ul>
<b>Connection of EP with the professional sphere</b>	<p>Sectoral Qualifications Framework for Light Industry Approved by the protocol of the meeting of the sectoral commissions on social partnership and regulation of social and labor relations for the mining and metallurgical, chemical, construction and woodworking, light industry and mechanical engineering industries dated August 16, 2016 No. 1.</p> <p>Sectoral Qualifications Framework for Innovation Activities (Approved by the decision of the Sectoral Commission on Social Partnership and Regulation of Social and Labor Relations of the Innovation Industry. Minutes No. 102-XT dated July 29, 2019)</p> <p>Professional standard "Teacher" (Appendix to the order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" № 133 dated June 8, 2017).</p>
<b>Name of the degree awarded</b>	Persons, who have mastered the EP of doctoral studies and defended a doctoral dissertation, with a positive

	<p>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 »</p>
<b>List of qualifications and positions</b>	<p>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.</p>
<b>Field of professional activity</b>	<p>The sphere of professional activity is:</p> <ul style="list-style-type: none"> <li>– educational activities in higher, vocational and technical educational institutions of technical profile,</li> <li>– scientific and management activities in research centres, research institutes, units of the State Enterprise Management Authority and the non-public sector;</li> <li>– 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.</li> </ul>
<b>Objects of professional activity</b>	<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>
<b>Subjects of professional activity</b>	<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>

<p><b>Types of professional activity</b></p>	<ul style="list-style-type: none"> <li>- in the field of scientific and scientific-pedagogical activity in the conditions of rapid updating and rapid growth of information flows of programs;</li> <li>- theoretical and experimental studies;</li> <li>- theoretical and applied problems in technological research of textile production and their solution;</li> <li>- problems of pedagogical training of students at the University;</li> <li>-professional and comprehensive analysis of problems in the field of textile production</li> <li>- plan and predict their further professional development</li> </ul>
<p><b>Learning outcomes</b></p>	<p><b>LO1</b> Plan, develop, implement and adjust a comprehensive research process in the textile industry;</p> <p><b>LO2</b> To demonstrate understanding of principles and methods of modeling and optimization of design processes and technological processes of production of textile materials of various assortment.</p> <p><b>LO3</b> Find the best solutions for the creation of textile products with innovative technologies taking into account the requirements of quality, reliability and cost, as well as the timing of performance, safety of life and environmental cleanliness;</p> <p><b>LO4</b> Predict the range of products of the enterprise for the production of textile materials and products, depending on the needs of the market.</p> <p><b>LO5</b> Organize, plan and implement engineering calculations, develop technology schemes and select raw data for textile design using state-of-the-art automated control systems and computer programs.</p> <p><b>LO6.</b> Analyze and process the achievements of science and technology, develop alternative options for modernization and reconstruction of existing facilities, participate in the creation of new projects that ensure the production of textile products in accordance with the international quality standard.</p> <p><b>LO7</b> To apply in practice skills of planning and possession of computer technologies for the solution of a wide range of tasks, processing of experimental data, registration of technical documentation and performance of technological calculations of textile production and to be able to critically estimate the received theoretical and</p>



	<p>experimental data and to draw conclusions, to solve problems of modeling and optimization of technological processes of textile productions.</p> <p><b>LO8</b> Demonstrate the skills of responsible and creative attitude to scientific and pedagogical activity; critical analysis, evaluation and comparison of various scientific theories and ideas, in-depth professional knowledge with the help of new information and educational technologies</p> <p><b>LO9</b> To manage, developing plans and programs of the organization of innovative activity at the enterprise; to manage programs of development of new quality products and innovative technology</p>
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### 3. COMPETENCES OF EP GRADUATE

<b>GENERAL COMPETENCES (SOFTSKILLS). Behavioral Skills and Personal Qualities</b>	
Competence in managing one's own literacy(self-learning and systems thinking; transdisciplinarity 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.

<b>PROFESSIONAL COMPETENCES (HARDSKILLS).</b> Theoretical knowledge and practical skills specific to this field.	
Theoretical knowledge and practical skills and abilities specific to this direction	<p>General professional (PC-1);</p> <ul style="list-style-type: none"> <li>- 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;</li> </ul>
	<p>Efficient use of raw materials, materials and equipment (PC-2);</p> <ul style="list-style-type: none"> <li>- ability to carry out a feasibility study of innovative projects, to develop an effective strategy and to form an active policy of risk management in the enterprise;</li> </ul>
	<p>Production and technological activity (PC-3):</p> <ul style="list-style-type: none"> <li>- 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;</li> </ul>
	<p>Organizational and management activities (PC-4):</p> <ul style="list-style-type: none"> <li>- 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;</li> </ul>
	<p>Research activities (PC-5):</p> <ul style="list-style-type: none"> <li>- 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.</li> </ul>

	<p>Project activity (PC-6):</p> <ul style="list-style-type: none"><li>- 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</li></ul>
	<p>Pedagogical activity (PC-7):</p> <ul style="list-style-type: none"><li>- mastery of basic methods of pedagogical skill (to know age psychology, laws of pedagogy, to have an idea of teaching methods);</li></ul> <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>

### 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	The issues of improving the level of written communication, the acquisition of the necessary written skills considers. The discipline consists from stages: planning, writing, editing and reviewing. The structure of the manuscript includes: title, membership of authors, abstract, keywords introduction, materials and methods, results and discussions, conclusion and links. The professional skills of analytical thinking, creativity when presenting in print the results of scientific research strengthens.	3	√			√		√				
		BD	UC	Research methods	To teach understanding of the main problems of development of science and production of goods of textile industry; carrying out research activities in the field of textile production related to the selection of the necessary research methods, conducting experimental studies and analysis of their results using information technology, conducting research on the basis of modern achievements of domestic and foreign scientists.	4	√		√					√		
		BD	EC	Innovative technologies in spinning, weaving and	Knowledge and understanding of the basic laws of development of technological processes and formation of technological systems in the production of textile materials and products based on the latest achievements	6			√		√					√

				knitting production	of science and technology; innovative technologies for the production of textile fibers, yarns, woven, knitted and non-woven fabrics; innovative technologies of special types of textile finishing materials; principles of waste-free textile production.										
		BD	EC	Scientific basis for the creation of resource-saving technologies in the textile industry	Formation of knowledge and skills of detailing production costs, an integrated approach to solving the issues of reducing the cost of production while maintaining or improving the level of quality, making the right decisions in the face of changing prices for individual components of the cost of production Innovative technologies that ensure resource saving and high quality of textile materials.	6			√		√				√
				Pedagogical practice	Pedagogical practice is designed to provide a link between the theoretical knowledge obtained in the assimilation of the theoretical educational program, and practical activities for the implementation of this knowledge in the educational process. The main idea of the practice is to form technological skills related to teaching activities, as well as communication skills that reflect the interaction with people	10	√							√	
	Achievements in the field of textile raw materials processing	BD	UC	Scientific bases of design of structure and properties of textile materials	Knowledge and understanding of the sequence of parameters design stages in technology, establishing the relationship between the parameters of the structure and the properties of materials, the method of evaluating the design of the intensity and efficiency of processes, methods designing the parameters of individual processes and their totality in the production of	4	√			√		√			



				textile materials of a given quality, with good feasibility studies.											
		PD	EC	Computer technologies in textile production	Knowledge and understanding the modern computer technologies used in solving professional problems; the development of theoretical and practical foundations of the use the modern software applications for General and special purposes; formation and development of students ' professional skills in computer technology to solve a wide range of problems, processing of experimental data, design of technical documentation and technological calculations of textile production	4					√		√		√
		PD	EC	Mathematical modeling and optimization of technological processes of textile production	Methodical and mathematical preparation for solving the problems of modeling and optimization of management and technological processes of textile production, understanding the principles and methods of modeling and optimization of design processes and technological processes of production of different range textile materials. Development of practical skills of formalization of initial information and building models of objects, system-structural analysis of objects and processes of the textile industry.	4		√			√		√		
		PD	EC	International quality assessment of roughness of perspective textile materials of different spinning	To apply methods of international assessment of quality of unevenness of yarn and textile production from natural and chemical fibers with use of the international ISO standards; to choose parameters of criteria of unevenness depending on requirements to quality of production in the production of perspective textile materials; to find new sources of	4		√	√			√			

				systems with Woolmark and Woolmarkblend marks	increase the competitiveness, the solution ways of system modeling problems of spinning and innovative technologies in production of perspective textile materials;										
		PD	EC	International standards for the quality of textile and light industry products.	Knowledge and understanding of the basic laws, theories and methods of product quality management; methods of measurement and evaluation of quality indicators of the main types of textile products. Recommendations of ISO 9000 international quality assurance standards. Basic tools of product quality management; quality Assessment of textile materials using regulatory and technical documentation to develop schematic diagrams of product quality management systems	4			v			v			v
				Research Practice	The research practice of the doctoral student is carried out in order to study the latest theoretical, methodological and technological achievements of domestic and foreign science, as well as to consolidate the practical skills of using modern methods of scientific research, processing and interpretation of experimental data in the dissertation research. It contributes to the development of doctoral students' competence in the field of scientific research of current problems and solving professional problems.	10	v		v						
	Module of final certification			The research work of doctoral student	The research work of the doctoral student should correspond to the main problems of the textile industry, be relevant, contain scientific novelty and practical significance; be based on	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	6	3	3	25			5		900	30	6	1
	2					10		20		900	30		2
2	3						10	20		900	30		1
	4							30		900	30		1
3	5							30		900	30		1
	6							18	12	900	30		1
<b>Итого</b>		<b>6</b>	<b>3</b>	<b>3</b>	<b>25</b>	<b>10</b>	<b>10</b>	<b>123</b>	<b>12</b>	<b>5400</b>	<b>180</b>	<b>6</b>	<b>6</b>

## 6. STRATEGIES AND METHODS OF TRAINING, MONITORING AND EVALUATION

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

## EDUCATIONAL AND RESOURCE SUPPORT OF THE EP

<p><b>Information Resource Center</b></p>	<p>Information and educational portal "PROFESSOR" <a href="http://www.portal.ukgu.kz">www.portal.ukgu.kz</a> 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 <a href="http://lib.ukgu.kz">http://lib.ukgu.kz</a> 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 <a href="http://lib.ukgu.kz">http://lib.ukgu.kz</a>.</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><b>Material and technical base</b></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 "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,</p>

	<p>MV-4M aspiration psychrometer, 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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