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EDUCATIONAL PROGRAM


7M07242 – Technology and Design of Light Industry Products

code and name of the educational program


Level: *master's (scientific and pedagogical track)*

Approved
 By the Board of Directors of KazUTB JSC
 from "02" 04 2025 G. Protocol No. 3

Recommended
 By the Academic Council of KazUTB JSC
 from "28" 03 2025 G. Protocol No. 8




Astana, 2025

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Preface

The educational program «7M07242 - Technology and Design of Light Industry Products» is developed in accordance with the requirements of the State mandatory standard of higher education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan No. 2, dated 20 July, 2022.

The educational program «7M07242 - Technology and Design of Light Industry Products» was approved at the meeting of the Internal Quality Assurance Council on "27" 03 2025 year, protocol No. 4


Chairman:  Baibolova L.K.

The educational program «7M07242 - Technology and Design of Light Industry Products» was approved at the meeting of the Quality Assurance Commission of the Faculty on "29" 11 2024 year, protocol No. 2

Chairman:  Zhunusova G.S.

The educational program «7M07242 - Technology and Design of Light Industry Products» was developed and discussed at the meeting of the Department of "Technology of Light Industry and Design" on "15" 11 2024 year, protocol No. 4

Head of Department:  Baizhanova Zh.B.


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Approval sheet

Educational programme «7M07242 - Technology and design of light industry products»


APPROVED:

- | | | | |
|---|---|------------------|----------------|
| Vice-rector for Academic Affairs |  | E. Askarbekov | «27» 03 2025y. |
| Head of the Department |  | B. Bayadilova | «27» 03 2025y. |
| Director of Technology and development of LLP «KSK Astana Yutariya Ltd» |  | G. T. Igembayeva | «15» 11 2024y. |
| ZHSHS «WOWKZ» Directors |  | A.E. Yesymova | «15» 11 2024y. |
| LLP «Komek-Astana» Director |  | V.R. Rafikov | «15» 11 2024y. |
| LLP «SAMIDEL» Director |  | D.A. Abdullina | «15» 11 2024y. |
| UO ZHSHS «Scientifik Center for New Technologies» Directors |  | A. Kokenaeva | «15» 11 2024y. |
| TIKILP-241 student |  | A. Sagidula | «15» 11 2024y. |

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1 Passport of the Educational Program

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| International Standard Classification of Education (ISCED) level | 7 |
| National Qualification Framework (NQF) level | 7 |
| Sectoral Qualifications Framework (SQF) level | 7 |
| Code and name of the field of education | 7M07- Engineering, Manufacturing, and Construction Industries |
| Direction of training | 7M072- Manufacturing and Processing Industries |
| Number and name of the group of educational programs | M114 -Textile: Clothing, Footwear, and Leather Products |
| Code and name of the educational program (EP) | 7M07242 - Technology and Design of Light Industry Products |
| Educational program profile | Scientific and pedagogical |
| Goal of the Educational Program (EP) | The goal of the educational program (EP) is to train highly qualified master's students in the field of technology and design of garment products, possessing professional and personal competencies in accordance with the needs of modern production and global perspectives of innovative development in the fashion industry, research organizations, and educational institutions. |
| Completion criterion of an educational program | Completion Criterion for the EP: At least 120 academic credits, including all types of academic activities of the student |
| Language of instruction of the educational program | kazakh, russian |
| Distinctive features of the educational program | Distinctive Features of the EP: Accreditation of the EP by an international accreditation agency for ensuring the quality of education |
| Partner University | - |

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2 Qualification Characteristics of the Graduate of the Educational Program


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| Degree Awarded | Degree Awarded Master of Technical Sciences in the educational program "Technology and Design of Light Industry Products." |
| Field of professional activity | Professional Activity Field The field of professional activity involves design-engineering, production, and innovation activities aimed at creating competitive products in the light industry and the fashion industry, and ensuring the population of the Republic of Kazakhstan with competitive products. |
| Types of professional activities | Types of Professional Activity A graduate from the 7M07242 "Technology and Design of Light Industry Products" program is prepared to perform the following types of professional activities: Production-engineering Organizational and managerial Research Project (design) Scientific-pedagogical |
| Object of professional activity | Objects of Professional Activity Graduates will engage with the following objects in their professional activity: <ul style="list-style-type: none"> • Sewn products • Design and modeling processes for light industry products • Regulatory and technical documentation and standardization systems • Methods and means of testing and quality control of materials and products in light industry |
| Functions of professional activity | Functions of Professional Activity (Labor Functions) Depending on their basic and specialized training, graduates can perform the following functions in the professional field: Production-Engineering: <ul style="list-style-type: none"> • Development of technical documentation for the designed product (sketches, drawings, models). • Preparation of detailed specifications for design projects and participation in their defense. • Consultation on designing competitive garments. • Introduction of new materials into production to create competitive products in line with market demands and fashion trends. • Investigation of production defects and proposals for their prevention and elimination. Organizational-Managerial Activity: <ul style="list-style-type: none"> • Organization of marketing and sales structures to improve business sustainability and competitiveness. |

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| | <ul style="list-style-type: none"> • Management in conditions involving a broad range of opinions, determining work execution procedures. • Preparation of applications for inventions and industrial designs of products. • Employee qualification and training. • Development of innovation activity plans and programs within the enterprise. <p>Research Activity:</p> <ul style="list-style-type: none"> • Management of research activities and commercialization of intellectual property rights. • Preparation of research and technical development work plans. • Design project activity, preparing tasks for performers. • Collection, processing, analysis, and systematization of scientific and technical information. • Selection of methods and means for solving the research task. • Conducting patent analysis. <p>Project (Design) Activity:</p> <ul style="list-style-type: none"> • Preparation of tasks for project and design solutions. • Preparation of generalized solutions for emerging issues, analyzing and forecasting consequences, and finding compromises in multi-criteria conditions. • Selection of measures for the rational use of material resources and control over their consumption. • Studying and implementing domestic and international practices in the industry. <p>Scientific-Pedagogical Activity:</p> <ul style="list-style-type: none"> • Conducting teaching activities in vocational and higher educational institutions as a lecturer or assistant under the guidance of a lead instructor, professor, or associate professor. • Development of educational and methodological materials used by students in the learning process. |
|--|--|

3 Requirements for the content of the educational program


| Name of cycles and disciplines | Workload in academic credits |
|--|------------------------------|
| Cycle of Basic Disciplines (BD) | 35 |
| University Component, including Pedagogical Practice | 20 |
| Elective Component | 15 |
| Cycle of Profile Disciplines (PD) | 53 |
| University Component | 40 |
| Research Practice | 13 |

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| Master's Research Work, including Internship and Master's Thesis | 24 |
| Final Certification | 8 |
| Total | 120 |

4 Competency map of the educational program «7M07242 - Technology and Design of Light Industry Products»

| Competence map of the educational program | Learning outcome code | Learning Outcome (according to Bloom's Taxonomy) |
|---|-----------------------|---|
| Behavioral skills and personality traits (Softskills) | LO1 | He is capable of communicating orally and in writing in a foreign language to solve problems of interpersonal and intercultural interaction in professional activities. |
| | LO2 | Applies knowledge of the main stages of the formation and development of science and world philosophical thought; understanding of professional and social necessity of own scientific work |
| | LO3 | Applies knowledge of the methodological foundations of higher school pedagogy, professional knowledge and skills in the training and socialization of students |
| | LO4 | He is able to use socio-psychological, economic methods of managerial communication aimed at the implementation of basic managerial functions in modern organizations |
| Digital competencies (Digital skills) | LO5 | Develops models taking into account a package of materials and design and technological features using modern computer systems in CAD |
| | LO6 | Develops clothing models based on the use of modern computer systems in CAD, taking into account the properties of the package of materials and design and technological features |
| | LO7 | Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials |

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| | LO12 | Applies AI to analyze data and create personalized clothing models |
| Professional skills (Hardskills) | LO8 | Integrates the knowledge gained in the framework of studying the disciplines of designing garments for solving analytical and managerial tasks in new changing conditions, in related industries |
| | LO9 | Uses effective and environmentally friendly methods of textile processing with planning of technical and organizational measures for centralized collection, storage and sorting of waste from textile production and clothing |
| | LO10 | Uses the studied theoretical and experimental results to develop costume design and knowledge in the field of fashion psychology to create fashionable clothes. |
| | LO11 | Applies professional approaches to evaluation of fit and formation of structures of system analysis of suit parameters. |


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5 Learning outcomes of the educational program and modules


| Learning Outcomes (LO) for the educational program | Name of module | Learning outcomes for the module | Name of disciplines that form learning outcomes |
|---|--------------------------|--|---|
| LO2 Applies knowledge of the main stages of the formation and development of science and world philosophical thought; understanding of professional and social necessity of own scientific work | Basic disciplines module | Demonstrates knowledge of the main stages of the formation and development of science and world philosophical thought; understanding of the professional and social necessity of one's own scientific work | History and philosophy of science |
| LO1 He is capable of communicating orally and in writing in a foreign language to solve problems of interpersonal and intercultural interaction in professional activities. | | Uses techniques of logical analysis of scientific texts in a foreign language | Foreign language (professional) |
| LO4 He is able to use socio-psychological, economic methods of managerial communication aimed at the implementation of basic managerial functions in modern organizations | | Applies knowledge of the methodological foundations of higher education pedagogy and vocational education in educational activities | Pedagogy of Higher Education |
| LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials | Compulsory disciplines | Describes the content of psychological characteristics of the individual when planning future professional activities. Demonstrates the ability to apply knowledge of psychology for the purposes of self-knowledge and knowledge of others Develops experiments with processing and analysis of their results, compiles descriptions of completed studies and prepares data for scientific reviews and publications. | Psychology of Management Organization, planning and methodology of scientific research |

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| LO12 Applies AI to analyze data and create personalized clothing models | Engineering and technology | Conducts research using a specific production situation as an example to obtain new types of special clothing ; Based on scientific research, selects new materials to create models of any complexity Identifies differences in the functioning of modern CAD programs; | Targeted Clothing Design Using AI |
| LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials | | | Innovations in materials for the fashion industry Automated design of light industry products |
| LO8 Integrates the knowledge gained in the framework of studying the disciplines of designing garments for solving analytical and managerial tasks in new changing conditions, in related industries | | Defines methods for organizing work with technological information systems at light industry enterprises | Technology of designing multi-product collections |
| LO9 Uses effective and environmentally friendly methods of textile processing with planning of technical and organizational measures for centralized collection, storage and sorting of waste from textile production and clothing | | Demonstrates the ability to apply psychological knowledge for the purposes of self-knowledge and knowledge of others. | Engineering concepts in a suit |

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| Management | Methods of teaching special disciplines |
|---|---|
| <p>LO3 Applies knowledge of the methodological foundations of higher school pedagogy, professional knowledge and skills in the training and socialization of students</p> <p>LO11 Applies professional approaches to evaluation of fit and formation of structures of system analysis of suit parameters.</p> <p>LO9 Uses effective and environmentally friendly methods of textile processing with planning of technical and organizational measures for centralized collection, storage and sorting of waste from textile production and clothing</p> | <p>Methodology of system design of a suit</p> <p>Technologies for recycling textile waste</p> |
| <p>LO6 Develops clothing models based on the use of modern computer systems in CAD, taking into account the properties of the package of materials and design and technological features</p> <p>LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials</p> | <p>Computer technologies in clothing design</p> <p>Methods of designing special clothing</p> |

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|---|--|---|--|
| <p>LO5 Develops models taking into account a package of materials and design and technological features using modern computer systems in CAD</p> | | <p>Considers issues of practical implementation of clothing design processes using new materials for light industry products.</p> | <p>Assortment policy of the enterprise</p> |
| <p>LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials</p> | | <p>Conducts an analysis of theoretical and practical aspects of modern production of garments and technological processes;</p> <p>Selects modern forms and methods in the process of designing a sewing enterprise.</p> | <p>Innovative technologies in the production of light industry products</p> |
| <p>LO8 Integrates the knowledge gained in the framework of studying the disciplines of designing garments for solving analytical and managerial tasks in new changing conditions, in related industries</p> | | <p>Identifies differences in the functioning of modern CAD programs;</p> | <p>Designing Digital Sewing Enterprises</p> |
| <p>LO8 Integrates the knowledge gained in the framework of studying the disciplines of designing garments for solving analytical and managerial tasks in new changing conditions, in related industries</p> | | <p>Considers issues of practical implementation of clothing design processes using new materials for light industry products.</p> | <p>Modern design of light industry products using CAD</p> |
| <p>LO12 Applies AI to analyze data and create personalized clothing models</p> | | <p>Identifies differences in the functioning of modern CAD programs;</p> | <p>Theoretical and methodological foundations for designing proportionate clothing</p> |
| <p>LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials</p> | | <p>Implements lean manufacturing methods and tools, which he uses in the process of designing technological processes for sewing production.</p> | <p>Targeted Clothing Design Using AI</p> <p>Ergonomic design of clothing</p> |

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|--|---|--|
| LO7 Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials | Develops products from new materials taking into account their properties | Fabrics of the Future and Nanotechnology |
|--|---|--|

6 The relationship between the attainability of the formed learning outcomes according to the educational program and academic disciplines

| № | Name disciplines | Brief description of the discipline | Number of credits | Cycle of basic disciplines University Component/ Elective Component | | | | | | | | | | | | | |
|---|-----------------------------------|---|-------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
| | | | | LO1 | LO2 | LO3 | LO4 | LO5 | LO6 | LO7 | LO8 | LO9 | | | | | |
| 1 | Foreign language (professional) | The purpose of the course is to acquire and improve competence in accordance with international standards of foreign language education, allowing the use of a foreign language as a means of communication in the intercultural, professional and scientific activities of the future master. The study of the discipline contributes to the training of highly qualified specialists who are able to compete in the labor market. | 4 | + | | | | | | | | | | | | | |
| 2 | History and philosophy of science | The purpose of studying the discipline is to philosophically comprehend science, comprehend the factual and ideological content of the stages of its development with the further use of acquired knowledge and skills in theoretical and practical professional activities. The course focuses on analyzing the main philosophical and | 4 | | | | | + | | | | | | | | | |


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7 Alignment of planned learning outcomes with assessment technologies and teaching methods within the module


| Learning Outcomes (LO) Number | Planned learning outcomes for the module | Assessment technologies (tools) | Methods of learning and teaching |
|-------------------------------|---|---|----------------------------------|
| LO1 | He is capable of communicating orally and in writing in a foreign language to solve problems of interpersonal and intercultural interaction in professional activities. | Defense of the computational and graphical assignment/project | Calculation of graphic data |
| LO2 | Applies knowledge of the main stages of the formation and development of science and world philosophical thought; understanding of professional and social necessity of own scientific work | Oral interview | Brainstorming |
| LO3 | Applies knowledge of the methodological foundations of higher school pedagogy, professional knowledge and skills in the training and socialization of students | Project protection | Project method |
| LO4 | He is able to use socio-psychological, economic methods of managerial communication aimed at the implementation of basic managerial functions in modern organizations | Control work | Multi-level tasks |
| LO5 | Develops models taking into account a package of materials and design and technological features using modern computer systems in CAD | Test | Interactive lecture |

| | | Project protection | Project method |
|------|--|------------------------------|---------------------|
| LO6 | Develops clothing models based on the use of modern computer systems in CAD, taking into account the properties of the package of materials and design and technological features | Report | Essay |
| LO7 | Uses information technology and computer-aided design systems to develop clothes of various assortment from innovative materials | Article | Brainstorming |
| LO8 | Integrates the knowledge gained in the framework of studying the disciplines of designing garments for solving analytical and managerial tasks in new changing conditions, in related industries | The Colloquium | Case analysis |
| LO9 | Uses effective and environmentally friendly methods of textile processing with planning of technical and organizational measures for centralized collection, storage and sorting of waste from textile production and clothing | Solving situational problems | Case analysis |
| LO10 | Uses the studied theoretical and experimental results to develop costume design and knowledge in the field of fashion psychology to create fashionable clothes. | Test | Interactive lecture |
| LO11 | Applies professional approaches to evaluation of fit and formation of structures of system analysis of suit parameters. | | |

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| LO12 | Applies AI to analyze data and create personalized clothing models | Oral interview | Debate |

8 Correlation of learning outcomes of the educational program with the labor functions of professional standards (if any)

| Name of the professional standards used | Professions at level 7 of the SQF | Labor functions | Tasks | Learning outcomes for the educational program |
|--|---|---|--|--|
| Appendix 4 to the Sectoral Qualifications Framework "Light Technologies" Professional standard "Technology and design" | Functional managers (managers) for financial, administrative and legal activities | Labor function 1. Architect software provision 2511-3-001 (Trajectory 1-Software Engineering) | <p>Task 1: Strategic Thinking and Leadership;</p> <ul style="list-style-type: none"> - Planning and analysis; - Technical and technological skills; - Knowledge of the basics of modern management and the ability to apply them in practice; <p>Task 2: Availability of management potential;</p> <ul style="list-style-type: none"> - Organization of work and effective interaction of all structural divisions and production units; - Resolving issues related to financial, economic and business activities; - Ability to analyze production and commercial processes at the enterprise. <p>Task 3: Availability of intellectual potential:</p> <ul style="list-style-type: none"> - Ability to analyze scientific research, best practices and development prospects in | <p>RO 3</p> <p>Uses information technology and computer-aided design systems to develop a variety of clothing from innovative materials.</p> <p>PO5 Applies methods of teaching special disciplines, pedagogy and psychology of higher education for the successful implementation of the tasks of innovative education and self-improvement.</p> <p>PO6 Able to use socio-psychological and economic techniques of management communication aimed at implementing basic</p> |

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| TF2. Specialist for conducting business analysis in ICT (business-analyst) 2511-2-003 (Trajectory 2 - Data analysis and modeling of information processes) | Task 1: Technical and technological skills; - Knowledge of methodologies of system analysis and design of professional situations, methods of making management decisions - Knowledge of the basics of modern management and the ability to apply them in practice; - Availability of management potential; - Organization of work and effective interaction of all structural divisions and production units; Task 2: Resolving issues related to financial, economic and business activities; - Ability to analyze production and commercial processes at the enterprise; - Methods of information processing using modern technical means, communications and connections. | RO1 Integrates knowledge gained in the study of disciplines in the design of garment products to solve analytical and management problems in new changing conditions in related industries. PO5 Applies methods of teaching special disciplines, pedagogy and psychology of higher education for the successful implementation of the tasks of innovative education and self-improvement. PO6 Able to use socio-psychological and economic techniques of management communication aimed at implementing basic management functions in modern organizations. | in modern organizations. |
| Requirements for personal competencies: Personal organization and high culture of own work; -Stress resistance; -Active life position; -Initiative; -Focus on results; - Organizational skills; -Ability to convince; -Ability to unite a team. | | | |


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| <p>Teacher 08.06.2017 No. 133.</p> | <p>College teacher Teacher. University teacher</p> | <p>Labor function 1: Educational: transmits educational information, teaches how to independently obtain knowledge</p> | <p>PO4 Demonstrates the basics of a systems approach to analyzing the process of clothing manufacturing, taking into account the trend of manufacturing models by industrial methods for the individual consumer.</p> |
| <p>Labor function 2: Educational: introduces students to the system of social values</p> | | | <p>PO3 Uses information technology and computer-aided design systems to develop a wide range of clothing from innovative materials.</p> |
| <p>Labor function 3: Methodological: provides methodological support for the educational process</p> | | | <p>PO4 Demonstrates the basics of a systems approach to analyzing the process of clothing manufacturing, taking into account the trend of manufacturing models for the individual consumer.</p> |

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| <p>Labor function 4: Research: studies the level of assimilation of educational content by students, explores the educational environment</p> | <p>Uses information technology and computer-aided design systems to develop a variety of clothing from innovative materials.</p> | <p>PO5 Applies methods of teaching special disciplines, pedagogy and psychology of higher education for the successful implementation of the tasks of innovative education and self-improvement.</p> |
| <p>Labor function 5: Social and communicative: interacts with the professional community and with all interested parties to education</p> | <p>RO1</p> | <p>Integrates knowledge gained in the study of disciplines in the design of garment products to solve analytical and management problems in new changing conditions in related industries.</p> |
| <p>Teacher. Manager in education</p> | <p>Labor function 1: Management: Organizes the activities of an educational organization (except for universities), a structural division (including a university)</p> | <p>PO2 Capable of professionally operating modern equipment and devices in accordance with the</p> |

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Personal and professional competencies:

Shows respect for students and teachers.

Maintains a democratic style of team management.

Complies with the norms of social and professional ethics.

Demonstrates the ability to bear personal responsibility for the results

of the activities of an educational organization or structural unit.

Demonstrates the ability and constant desire for successful and positive

business communication in the state and other languages.


Demonstrates communication skills, tolerance, oratory skills, and law-

abidingness.

goals and objectives of scientific
research work.

PO3

Uses information technology and
computer-aided design systems
to develop a variety of clothing
from innovative materials.

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9 Graduate model

| GRADUATE MODEL | | | |
|---|--|--|--|
| Professional standard | Competencies (soft skills, digital skills) | | |
| | Attributes of a graduate | knowledge | Skills |
| | Ability to plan, Ensuring that the work is completed on time; Efficiency. rational use of resources; Perseverance, attentiveness, patience, ability to remain calm, accuracy; perseverance; Digital competence. The formation of the personality of a specialist, expressed in the unity of knowledge, skills and personal qualities for the performance of all types of professional and social activities in changing conditions | On the properties, classification and purpose of materials used in light industry; Anthropometric and ergonomic norms for designing clothing structures; Technological processes for the manufacture of garments, including the sequence of operations, processing modes and quality control; Modern approaches to product quality management and implementation of innovative technologies. | It is aimed at the formation of the personality of a specialist, expressed in the unity of knowledge, skills and personal qualities for the performance of all types of professional and social activities in changing conditions. The student owns the research methodology and is able to explore the features of culture, social life, well-being, behavior in the social sphere of various national-ethnic and gender-age, as well as socially class groups. |
| | Professional skills (hard skills) | | |
| Take and process anthropometric measurements to design clothing in accordance with established codes and standards; Develop and execute design and process documentation (drawings, process flow charts, layout diagrams); Control the quality of finished products at all stages of the production process, checking compliance with standards and specifications; Organize and monitor the work of small production teams or individual projects. | | | |

| Модуль / Module № | Краткое описание модуля / Short description of the module | Место проведения модуля / Location of the module | Формы обучения / Learning forms | Семестр / Semester | Курс / Course | Объем часов / Number of hours | Эквивалентное количество кредитов / Equivalent credit value | Условия зачисления / Admission conditions | Условия обучения / Learning conditions | | | | | | |
|---|---|--|---|--------------------|---------------|-------------------------------|---|---|--|----|----|-----|-------|-------------------------------|-------------------------------|
| | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| 4 | Углубленные исследования в области текстильной промышленности / In-depth research in the textile industry Технологии переработки текстиля / Textile processing technologies Технологии переработки текстиля / Textile processing technologies | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 4 | 4 | 180 | 45 | 15 | 15 | 90 | 15 | 0 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 5 | Безопасность текстиля / Textile safety Анализ текстиля / Textile analysis Безопасность текстиля / Textile safety | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 3 | 180 | 45 | 15 | 15 | 90 | 15 | 0 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 6 | Безопасность текстиля / Textile safety Технологии переработки текстиля / Textile processing technologies | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 1 | 5 | 180 | 0 | 0 | 0 | 0 | 0 | 0 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 7 | Методы текстильной промышленности / Textile industry methods Научно-исследовательская работа магистранта / Master's research work | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 2 | 9 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 8 | Технологии текстильной промышленности / Textile industry technologies Научно-исследовательская работа магистранта / Master's research work | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 4 | 1020 | 180 | 60 | 120 | 60 | 60 | 360 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| Галерея модулей / Gallery of modules / Scientific design module | | | | | | | | | | | | | | | |
| 1 | Конструирование текстиля / Textile design Конструирование текстиля / Textile design | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 1 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 2 | Методы текстильной промышленности / Textile industry methods Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 3 | Методы текстильной промышленности / Textile industry methods Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 4 | Методы текстильной промышленности / Textile industry methods Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 5 | Методы текстильной промышленности / Textile industry methods Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 6 | Методы текстильной промышленности / Textile industry methods Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| Мини-гид модулей / Mini-guide of modules / Multiple of disciplines | | | | | | | | | | | | | | | |
| 1 | Углубленные исследования в области текстильной промышленности / In-depth research in the textile industry Организация текстильной промышленности / Textile industry organization | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 2 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 2 | Углубленные исследования в области текстильной промышленности / In-depth research in the textile industry Методы текстильной промышленности / Textile industry methods | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 3 | 5 | 180 | 45 | 15 | 30 | 15 | 90 | 15 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| Корректирующие модули / Corrective modules / Final assessment | | | | | | | | | | | | | | | |
| 6 | Методы текстильной промышленности / Textile industry methods Оформление текстиля / Textile finishing | МФТИ (ФТИ) / MFIT (FTI) | БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) БП (ЖК) / PD (JC) | 2 | 8 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 1-2-0 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| Итого по модулю / Total for module | | | | | | | | | | | | | | | |
| Итого по модулю / Total for module | | | | | | | | | | | | | | | |
| Итого по модулю / Total for module | | | | | | | | | | | | | | | |

| Модуль / Module № | Курс / Course | Семестр / Semester | Объем часов / Number of hours | Эквивалентное количество кредитов / Equivalent credit value | Условия зачисления / Admission conditions | Условия обучения / Learning conditions |
|---|---------------|--------------------|-------------------------------|---|---|--|
| 1 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 2 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 3 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 4 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 5 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| 6 | 1 | 1 | 180 | 45 | Без экзаменов / Without exams | Без экзаменов / Without exams |
| Итого по модулю / Total for module | | | | | | |
| Итого по модулю / Total for module | | | | | | |
| Итого по модулю / Total for module | | | | | | |

Expert Opinion (Review)

on the Educational Program «7M07242 – Technology and Design of Light Industry Products»

Relevance of the Program Content

The educational program "Technology and Design of Light Industry Products" meets the current requirements of the labor market, the directions of economic development, and the digital transformation of the industry. The content of the program covers up-to-date production processes in light industry, the latest technologies in the fashion industry, as well as the principles of sustainable development and environmental safety.

The program ensures a strong connection between science and industry, combining theoretical knowledge with practical skills. Of particular importance is the program's emphasis on proficiency in CAD systems, modeling using artificial intelligence, and the use of innovative materials, all of which are closely linked to contemporary scientific achievements.

Compliance with Economic, Social, and Employer Demands

The program is labor market-oriented and responds to the growing demand for specialists in the light industry not only in Kazakhstan but also across Central Asian countries. Graduates can successfully pursue careers in textile and garment enterprises, fashion houses, design studios, as well as educational and research institutions.

The declared learning outcomes—including digital literacy, design with environmental considerations, and engineering-technological thinking—allow graduates to be flexible and competitive. The presence of feedback mechanisms with employers and the practical orientation of the curriculum further enhance the applied value of the program.

Recommendations for Program Improvement

1. Strengthen the international component – include English-language modules, expand academic mobility, and foster network collaboration.
2. Deepen cooperation with employers – implement elements of dual education, increase the number of industrial internship bases.

Conclusion

The master's educational program "Technology and Design of Light Industry Products" meets current academic and professional standards, reflects relevant scientific and technological trends, and addresses the needs of the economy. The program demonstrates a high level of academic and practical significance and contributes to the formation of competitive specialists prepared for professional activity in scientific, industrial, and educational spheres.

Program Evaluation: completed at a high level.
Recommendation: recommend for approval and further development.

Expert,
Professor of the Tashkent
Institute of Textile and
Light Industry,
Doctor of Technical Sciences,
Professor



S.Sh. Tashpulatov

**Экспертное заключение
(Рецензия)
на ОП
«7M07242-Технология и конструирование изделий лёгкой
промышленности»**

Актуальность содержания программы:

Образовательная программа «Технология и конструирование изделий лёгкой промышленности» соответствует современным требованиям рынка труда, направлениям развития экономики и цифровой трансформации отрасли. Содержание программы охватывает актуальные производственные процессы лёгкой промышленности, новейшие технологии в индустрии моды, а также принципы устойчивого развития и экологической безопасности. Программа обеспечивает прочную связь между наукой и производством, объединяя теоретические знания и практические навыки. Особенно важно, что большое внимание уделяется овладению САД-системами, моделированию с применением искусственного интеллекта, а также использованию инновационных материалов, что напрямую связано с современными научными достижениями.

Соответствие требованиям экономики, общества и работодателей:

Программа ориентирована на рынок труда и отвечает растущему спросу на специалистов в области лёгкой промышленности не только в Казахстане, но и в странах Центральной Азии. Выпускники могут успешно реализовываться на предприятиях швейной и текстильной отрасли, в модных домах, дизайн-студиях, образовательных и научно-исследовательских организациях.

Заявленные результаты обучения: включающие цифровую грамотность, проектирование с учётом экологических требований, инженерно-технологическое мышление, позволяют выпускникам быть гибкими и конкурентоспособными. Наличие обратной связи с работодателями и практическая направленность учебного процесса усиливают прикладную ценность программы.

Рекомендации по совершенствованию программы:

1. Укрепить международный компонент - включить модули на английском языке, расширить академическую мобильность и сетевое сотрудничество.
2. Углубить взаимодействие с работодателями – внедрить элементы дуального обучения, увеличить число баз производственной практики.

Заключение

Магистерская образовательная программа «Технология и конструирование изделий лёгкой промышленности» отвечает современным академическим и профессиональным требованиям, отражает актуальные научно-технологические тенденции и потребности экономики. Программа отличается высокой степенью академической и практической значимости, способствует формированию конкурентоспособных специалистов, готовых к профессиональной реализации в научной, производственной и образовательной сферах.

Оценка программы: выполнена на высоком уровне.
Рекомендация: рекомендовать к утверждению и дальнейшему совершенствованию.

Эксперт:

**Профессор Ташкентского
института текстильной
и легкой промышленности,
доктор технических наук,
профессор**



С.Ш.Ташпулатов

Экспертное заключение

(Рецензия)

на ОП «7М07242-

Технология и конструирование изделий лёгкой промышленности»

Оценка актуальности и практической направленности программы:

На современном этапе лёгкая промышленность переживает этап активной трансформации: внедряются цифровые решения, возрастает спрос на индивидуализированное проектирование, устойчивое производство и экологически безопасные технологии. В этом контексте представленная образовательная программа является своевременной и востребованной.

Программа подготовлена с учётом потребностей реального сектора экономики: в ней чётко прослеживается связь между теоретической базой и практическими задачами, с которыми сталкиваются специалисты на производстве. Особое внимание уделено цифровым инструментам проектирования (САПР), новым технологиям обработки тканей, управлению качеством, а также устойчивому подходу к переработке материалов - что полностью соответствует текущим приоритетам отрасли.

Соответствие запросам работодателей:

С точки зрения работодателя, важно, чтобы выпускник обладал не только знаниями, но и прикладными навыками: умел работать с оборудованием, разбираться в конструкторско-технологической документации, принимать обоснованные технические решения, управлять производственными процессами и понимать требования рынка.

Программа охватывает такие важные профессиональные навыки (РО8–РО11), как:

- интеграция знаний в условиях реального производства;
- экологичная переработка текстиля;
- комплексный анализ посадки изделия.

Это говорит о качественной подготовке будущих специалистов, которые смогут быстро адаптироваться к условиям современного производства.

Рекомендации по улучшению программы

1. Развить управленческий компонент - ввести дисциплины по управлению производством, логистике, экономике модного предприятия;
2. Регулярно актуализировать содержание - с привлечением действующих представителей отрасли к ревизии учебных планов.

