

1. Profile of the educational and professional program Design and Technology of Sewing Products

1 – General information	
Full names of the higher education institution and structural unit	Kyiv National University of Technologies and Design, Department of Technology and Design of Sewing Products.
Degree of higher education and qualification	Level of higher education - second. Degree of higher education - master. Knowledge area - 18 Manufacturing and technology. Specialty - 182 Consumer industry technologies.
Diploma and the scope	Master's degree, single, 90 ECTS credits.
Accreditation	Accreditation Certificate of the educational program UD № 110070054 dated July 11, 2018.
Cycle / level	the seventh level according to National Qualifications Framework
Prerequisites	Bachelor degree.
Language	Ukrainian
The validity of the study program	1 July 2023.
Weblink to the study program description	https://knutd.edu.ua/ekts/
2 – The purpose of the educational program	
<p>Training of specialists who have deep knowledge, as well as basic and professional competencies in the field of design and technology of garments, aimed at acquiring knowledge, understanding, skills, abilities and abilities in the process of designing, manufacturing garments and research activities for the development innovative technologies of garment production.</p> <p><i>The main objectives of the program</i> are the formation and development of general and professional competencies in light industry technology, which involves the introduction of professional knowledge and practical skills to solve complex specialized problems and practical problems in the production and technology of garments, characterized by uncertain conditions and requirements.</p>	
3 – Characteristics of the educational program	
Subject area	<p>The program is focused on the formation of applicants' competencies for the acquisition of deep knowledge, skills and abilities in the field of production and light industry technologies.</p> <p>Compulsory educational components - 73%, of which: disciplines of general training - 9%, vocational training - 32%, practical training - 23%, learning a foreign language - 4%, diploma design - 32%. Disciplines of free choice of students - 27% are selected from the university catalog in accordance with the approved procedure at the University.</p>
Program orientation	Educational and professional training for a master's degree.
The main focus of the educational program	Emphasis is placed on the formation and development of professional competencies in the field of design and innovative technologies for the manufacture of garments; study of theoretical and methodological provisions of the organization of technological processes of garment production, organizational and practical tools to ensure the quality of garments.
Study program features	Performed in an active research environment, focused on acquiring competencies to solve complex design and technological problems and problems in the field of design, manufacture and improvement of highly aesthetic, competitive garments for various functional purposes from different materials. Implemented in two areas.

	<p>Specialization <i>Design and Technology of Sewing Products</i>. Emphasis is placed on mastering competencies in the field of design and innovative technologies of clothing development, technological processes taking into account the properties of new and energy-saving production technologies, the use of modern methods to ensure the quality of garments.</p> <p>Specialization <i>Technologies and Design of Fur Products</i>. Emphasis is placed on mastering competencies in the field of design and innovative technologies for the manufacture of leather and fur garments, the use of modern methods to ensure their quality.</p>	
4 – Suitability of graduates for employment and further study		
The employment suitability	<p>The graduate is suitable for employment in enterprises, institutions and organizations of light industry.</p> <p>Main positions: head of the enterprise, director of the laboratory, head of the production department, head of the shop, head of the design department, head of production practice, chief designer, head of the research sector, head of the technical department, researcher (industry - engineering), engineer. researcher, design engineer, technological engineer.</p>	
Further study	<p>Lifelong learning to improve professional, scientific and other activities. Possibility to continue training according to the educational-scientific program of the third (educational-scientific) level of higher education (doctor of philosophy).</p>	
5 – Teaching and assessment		
Teaching and learning	<p>Student-centered and problem-oriented learning, research practice and self-study are used. The system of teaching methods is based on the principles of purposefulness, binary - active direct participation of research and teaching staff and higher education.</p> <p>Forms of organization of the educational process: lecture, seminar, practical, laboratory classes, practical training, independent work, consultation, development of professional projects (works).</p>	
Grading	<p>Exams, tests, tests, essays, professional projects, project work, presentations, reports, portfolio, master's thesis (project).</p>	
6 – Program competencies		
Integral competence (IC)	<p>Ability to solve complex problems of the consumer industry technologies or of the training, which involves research and/or innovation and is characterized by the uncertainty of conditions and requirements.</p>	
General competencies (GC)	GC 1	Ability the knowledge using at practice.
	GC 2	Ability to plan and manage time.
	GC 3	Ability to communicate in a foreign language.
	GC 4	Interpersonal skills.
	GC 5	Ability to the teamwork.
Professional competencies (PC)	PC 1	Ability to develop and manage projects in the field of the consumer industry technologies.
	PC 2	Ability to collect, analyze and process information from different sources, including foreign ones, to solve complex scientific and creative problems in the field of the consumer industry technology.
	PC 3	Ability to safe activities when manufacturing the consumer industry products.
	PC 4	Ability to demonstrate initiative and leadership, to bear personal responsibility in the professional sphere.

	PC 5	Ability to use information technology for processing and analysis of empirical data, modeling, design, manufacturing, and quality control of the consumer industry products.
	PC 6	Ability to make effective decisions and ensure the appropriate quality level of work, safety, and economic efficiency the manufacturing in the consumer industry.
	PC 7	Ability to adapt and solve a wide range of complex problems and tasks, characterized by uncertainty of conditions and requirements in the field of production and light industry technologies.
	PC 8	Ability to carry out author's control of step-by-step production of garments, to carry out standard and certification tests of clothes and materials for it, to investigate the reasons of occurrence of defect in production and to develop offers on its prevention and elimination
	PC 9	Ability to effectively and scientifically use basic and auxiliary materials, equipment, appropriate algorithms and programs for calculating the parameters of the technological process.
	PC 10	Ability to develop design and technological documentation for the manufacture of garments of different assortment and from different materials, taking into account structural and technological, aesthetic, economic, environmental and other parameters.

7 – Program learning outcomes

Knowledge and understanding:

PLO 1	to have got specialized conceptual knowledge, including modern scientific achievements in the field of the consumer industry manufacturing and technologies, sufficient to produce new ideas and conduct research.
PLO 2	to know the basic laws and regulations for occupational safety and health in the industry, international norms in occupational safety, social responsibility.
PLO 3	to know the basics of management and protection of intellectual property, the legal framework of Ukraine for the intellectual property rights.
PLO 4	to understand mathematics, physics, chemistry, general engineering at the level necessary to achieve other learning outcomes within the study program.

Application of knowledge and understanding (skills):

PLO 5	to plan scientific and/or applied research in the field of textile and consumer industry technologies, to choose effective research methods, to process and analyze research results, to justify conclusions.
PLO 6	to communicate fluently in state and foreign languages orally and in writing on scientific, engineering, and manufacturing issues in the field of textile and consumer industries technologies, to present the activities results.
PLO 7	to develop and implement innovative projects in the field of textile and consumer industries manufacturing and technologies, taking into account technological, commercial, legislative, and other aspects; protect the intellectual property right.
PLO 8	to use modern methods and equipment for experimental research of technologies, manufacturing processes, materials, and products of the consumer industry, to apply relevant methods for planning and statistical processing of experimental data.
PLO 9	to organize the work of the research or production team, to manage its activities in accordance with applicable law and internal regulations of the enterprise / institution, ensure the team efficiency and work quality, occupational safety, and the environmental protection.
PLO 10	to learn new knowledge and skills individually, to help teammates in learning.

PLO 11	assess and eliminate risks in making technological and organizational decisions in the field of production and light industry technologies, make effective decisions under uncertain conditions and requirements.
PLO 12	to monitor compliance with safe at each workplace and timely update the instructions based on existing conditions, taking into account the requirements of occupational safety, industrial sanitation, and fire protection.
PLO 13	use modern information technologies for the organization and effective implementation of technological processes for the production of garments for various purposes from different materials.
PLO 14	to analyze the state and dynamics of quality indicators of garments and materials for their manufacture using the necessary methods and research tools, to justify the adoption of a specific technical decision in the development of garments and technological processes of garment production
Formation of judgments:	
PLO 15	to communicate own conclusions, research and innovation results to specialists and non-specialists, in particular to colleagues, business partners, and students, to argue own position clearly and unambiguous.
PLO 16	to evaluate objectively the quality and efficiency of own work, the work of own and other teams.
PLO 17	to find the necessary information in the scientific literature, patents, databases, other sources; to evaluate, process, and critically analyze it for the development and implementation of scientific and innovative projects.
PLO 18	to understand the broad interdisciplinary context of textile and consumer industries technologies, take into account legal, economic, social, ethical, environmental aspects in solving complex scientific, engineering, and manufacturing problems and making appropriate decisions.
PLO 19	to predict the development of technologies and manufacturing, market conditions in the textile and consumer industries.
8 – Resources for program implementation	
Staffing	All teaching staff who provide this scientific study program correspond to the taught courses profile by qualification and have got the necessary experience of pedagogical activity and practical work. High professionals with experience in research / management / innovation / creative work in the consumer industry field are involved in the training.
Logistics	Logistics allows to fully ensure the educational process throughout the study program cycle. The condition of the classes and laboratories is certified with sanitary and technical passports that comply with existing regulations.
Information and methodical support	The program is fully provided with an educational and methodical complex of all courses, which availability is presented in the modular environment of the educational process of the University.
9 – Academic mobility	
National credit mobility	The program provides the possibility for academic mobility in some components provided the acquisition of general and / or professional competencies.
International credit mobility	The program develops prospects for internships and participation in research projects and academic mobility programs abroad. Performed in an active research environment.
Studying for foreign students	Studying of foreign students is according to accredited programs.

List of components (study courses) of the scientific study program of the second (master's) level of higher education

Cod	Components of the study program (study courses, courses projects (works), practices, qualification work)	Number of credits	Form of control
1	2	3	4
Compulsory components			
General training cycle			
CC. 1	Occupational safety and health in the industry	3	exam
CC. 2	Methodology of modern scientific studies with the basics of intellectual property	3	exam
CC. 3	Business Foreign Language (english , german , france)	3	credit
Professional courses cycle			
CC. 4	Innovative technologies of garment production	6	exam
CC. 5	Competitiveness of garments	3	exam
CC. 6	Modern equipment and technologies of service and fashion	3	exam
of professional orientation " Design and Technology of Sewing Products "			
CC.7.1	Verification of conformity in the garment industry	3	exam
CC.8.1	Methodology of labor processes analysis for garment production	3	exam
CC.9.1	Special technologies for garments manufacturing from the advanced materials	3	exam
of professional orientation " Technologies and Design of Fur Products»			
CC.7.2	Innovative technologies for manufacture leather and fur products	3	exam
CC.8.2	Technical design of leather and fur garments	3	exam
CC.9.2	Special technologies for manufacturing leather and fur garments	3	exam
CC. 10	Research practice	6	credit
CC. 11	Pre-diploma practice	9	credit
CC. 12	Master`s thesis (project)	21	attestation
Total credits for Compulsory components		66	
Elective components			
EC	Courses for student`s choice	24	credit
TOTAL CREDITS		90	