RĪGAS TEHNISKĀ UNIVERSITĀTE

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Study programme "Clothing and Textile Technology"

Main attributes

Title	Clothing and Textile Technology
Identification code	WCV0
Education classification code	42542
Level and type	Professional Bachelor (First Cycle) Studies
Higher education study field	Manufacture and Processing
Head of the study field	Edgars Kirilovs
Department responsible	Institute of Arhitecture and Design
Head of the study programme	Ilze Baltiņa
Professional classification code	2141 25
The type of study programme	Full time
Language	Latvian, English
Accreditation	29.06.2022 - 30.06.2028; Accreditation certificate No 2022/41
Volume (credit points)	160.0
Duration of studies (years)	Full time studies - 4,0
Degree or/and qualification to be obtained	Professional bachelor degree in clothing and textile technology / engineer in clothing and textile production
Qualification level to be obtained	The 6th level of European Qualifications Framework (EQF) and Latvian Qualifications Framework (LQF); the 6th level of professional qualification
Programme prerequisites	General or vocational secondary education

Description

Abstract	The study programme is implemented by the Department of Clothing and Textile Technologies of the Institute of Technology and Design of Textile Materials of the Faculty of Materials Science and Applied Chemistry, Riga Technical University (RTU). The study programme has been developed on the basis of the engineering study programme "Textile and Clothing Technology" by expanding the specialization possibilities according to market demand. The study programme has been implemented since 2007. It was accredited in 2008. The study programme foresees the opportunity of specializing in one of the four study directions – textile technology, apparel technology, apparel designing or textile and apparel consumer science. The graduates of the study programme are awarded the qualification of a Textile and Apparel Production Engineer and the professional bachelor degree.
Aim	The goal of the study programme is to train highly qualified engineers of the LQF level 6 for the textile and clothing industry - specialists in textile technologies, clothing technologies and clothing construction, familiar with the basics of modern technologies and specialised design methods, providing students with engineering training and basics of materials science in the textile and clothing technology sub-sector, as well as creating a basis for further studies to acquire a higher level of knowledge and competence.
Tasks	Objectives of the study programme: - to train competitive professionals demanded on the labour market of the textile and clothing manufacturing industry; - to implement a study programme, which covers various areas related to different textile and clothing technologies, to provide an opportunity for students to learn engineering basics, to become familiar with technologies of design and production of textile and clothing; - to train production engineers with a broad perspective, able to independently perform creative work in an area of the textile industry; - to develop the abilities of students to independently analyse and solve particular product design tasks and assignments related to the design, organisation, management of manufacturing companies and provision of the quality of production; - to develop the abilities of students to independently solve practical tasks related to textile and clothing production technological processes and their construction, management and organisation by working both individually and within a team; - to provide the necessary knowledge and to develop the abilities of sustainable working both in manufacturing at undertakings related to the textile industry (fashion business, trade, etc.) and continuing studies on the Master's level.

Learning outcomes	Graduates of the study programme: - understand the design of textiles and textile products or the design, construction and cutting of clothing and the application of the used methods and materials; - are familiar with the concepts of improvement of the technological processes of manufacturing of textiles, textile products or clothing, their development and introduction methods, the methods of the work time planning, work organisation and control, use of technological equipment; - understand development of new products and manufacturing technologies, the most recent industry trends, innovations and methods, the requirements of the national and EU laws and regulations governing the industry and their changes; - are able to independently design textiles, textile products or clothing constructions, including by using computer aided design systems, as well as to develop proposals for purchase of needed raw materials for industrial manufacturing of new design products; - are able to develop and plan manufacturing technological processes, to make their adjustments, to design the sequence of performance of processes, to develop the equipment service and work instructions in industrial manufacturing, to develop standards of the work time, to define the layout of the flow, to adopt decisions on needed adjustments in non-standard situations; - are able to work in a team for development of introduction of new products in manufacturing and to develop new technological processes, to define the product quality criteria, to implement the quality control of production; - are able to plan, organise and provide performance of the manufacturing of textile, textile products or sewn products in compliance with the work assignment, the quality and time requirements, the customer's and/ or client's needs and to assume responsibility for the results of the works performed by oneself and/ or the team; - are able to introduce and organise the quality control processes and the requirements for providing the product quality by ensuring and supervising compliance with the quality and labour safety, electrical safety, fire safety and ergonomics, and developing recommendations for changing the requirements; - are able to analyse information about the development trends and standards of the textile industry, to recommend and introduce new methods of construction, modelling, improving of technological processes, design, concepts, methods and their experimental models.
Final/state examination procedure, assessment	The bachelor thesis has to be defended at an open meeting of the State Examination Commission, which is appointed by the Rector of RTU and is composed of no less than 51% of employers' representatives. Before the defence, the bachelor theses are evaluated by reviewers appointed by the Department of Apparel and Textile Technology. The bachelor' thesis is evaluated according to a 10-point grading scale.
Description of the future employment	The graduates of the study programme can work as different level managers, technologists, constructors, designers, production managers at textile or apparel production companies. Also they can work at governmental institutions and trade organizations and be responsible for textile material purchasing and quality issues.
Special enrollment requirements	No specific requirements.
Opportunity to continue studies	Graduates have an opportunity to study at master study programmes of RTU or at similar programmes in other higher education institutions in Latvia and abroad.

Courses

No	Code	Name	Credit points
A		**Compulsory Study Courses**	**82.0**
A1		**General Education Study Courses**	**12.0**
1	MŠM117	Introduction to Study Field	1.0
2	VAS038	Environment and Climate Roadmap	1.0
3	IDA102	General and Occupational Safety	1.0
4	ICA301	Civil Defence	1.0
5	MVR702	Textile and Clothing Research Methods	2.0
6	SDD700	Innovative Product Development and Entrepreneurship	6.0
A.2		**Field-Specific Theoretical Basic and IT Study Courses**	**36.0**
1	DAM103	Mathematics	5.0
2	DMS212	Probability Theory and Mathematical Statistics	2.0
3	MFA105	Physics	6.0
4	MVR700	Computer Studies (basics)	3.0
5	ĶPI103	Basics of Materials Science	2.0
6	IUV101	Fundamentals of Law	2.0
7	ĶPĶ317	Textile Chemistry	2.0
8	BTG131	Descriptive Geometry and Engineering Graphics	2.0
9	MTR301	Basics of Visual Arts for Clothing Studies	5.0
10	MŠM321	Basics of Textile and Leather Materials Science	5.0
11	IET103	Economics	2.0
A.3		**Field-Specific Professional Study Courses**	**34.0**
1	MVR701	Computer Studies (special course)	2.0
2	MTR100	Sectoral Engineering	2.0
3	MVR728	Fundamentals of Garment Patternmaking and Technology	2.0
4	MVR706	Basic Principles of Textile Technologies	2.0
5	MTR304	Basics of Fashion Marketing and Apparel Commodity Science	4.0
6	MŠM125	The Substantiation of Technologies of Clothing and Textile	4.0
7	MVR713	Clothing Material Development	2.0
8	MVR425	Clothing Quality Control	3.0
9	MVR705	Technical Textiles	2.0
10	MŠM164	Clothing Material Science (Study Project)	3.0
11			**8.0**
			8.0
0	MVR712	The Development of Industrial Clothing Collections (Study Project)	4.0
1	MŠM172	The Development of a Clothing Production Unit (Study Project)	4.0
			8.0
1	MVR711	Textiles Development (Study Project)	4.0
2	MŠM391	The Development of Branch Enterprises (Study Project)	4.0
			8.0
1	MVR712	The Development of Industrial Clothing Collections (Study Project)	4.0
2	MŠM163	Garment Pattern Making (Study Project)	4.0
B		**Compulsory Elective Study Courses**	**40.0**
B1		**Field-Specific Study Courses**	**32.0**
			32.0
1	MVR777	Design of Sewing Factories and Fashion Workshops	4.0
2	MTR348	Sewing Work Study	2.0
3	MVR241	Industrial Cutting	2.0
4	MVR556	Modular Fabrication of Garments	4.0
5	MTR302	Basics of Anthropology for Clothing Studies	2.0
6	MVR413	Advanced Clothing Technologies	2.0
7	MVR781	Advanced Clothing Technologies	4.0
8	MVR243	Garment Patternmaking	4.0
9	MVR239	Elements of Sewing Workpiece Processing	2.0
10	MŠM533	Computer - aided Pattern Design	4.0
11	MVR725	Technological Equipment of Sewing Factories	4.0
12	MŠM126	Technology of Special Assortment Garment	2.0
13	ĶPĶ379	Finishing of Textile Materials	2.0
14	MVR527	Design of Clothing Collections	4.0

15	ATM205	Fundamentals of Fine Arts	2.0
			32.0
1	MŠM258	Textile Materials Science	3.0
2	ĶPĶ379	Finishing of Textile Materials	2.0
3	MŠM123	Yarn Tehnology	6.0
4	MŠM145	Woven Fabric Technology	6.0
5	MŠM130	Knitting Technology	6.0
6	MVR783	Knitting Technology	5.0
7	MŠM149	Production of Technical Textiles	4.0
8	MŠM290	Industrial Equipment of the Branch Enterprises	4.0
9	MŠM378	Computer-Aided Systems for Textile Technologies	2.0
10	MŠM269	Analysis of Woven Fabric Structures	3.0
11	MŠM363	Technology and Bases of a Yarn Design	3.0
12	MTR350	Basic Principles of Knitting Technology and Tricot Structures Design	3.0
13	MVR729	Production of Nonwovens	2.0
14	ATM205	Fundamentals of Fine Arts	2.0
			32.0
1	MVR216	Garment Style Creation	4.0
2	MVR217	Garment Pattern Grading	2.0
3	MVR213	Pattern Construction System GRAFIS	4.0
4	MVR214	Garment CAD System LECTRA	4.0
5	MVR782	Methods of Computer-Aided Designing of Clothing	6.0
6	MTR302	Basics of Anthropology for Clothing Studies	2.0
7	MVR413	Advanced Clothing Technologies	2.0
8	MVR243	Garment Patternmaking	4.0
9	MVR239	Elements of Sewing Workpiece Processing	2.0
10	MVR556	Modular Fabrication of Garments	4.0
11	MŠM533	Computer - aided Pattern Design	4.0
12	MVR527	Design of Clothing Collections	4.0
13	ATM205	Fundamentals of Fine Arts	2.0
B2		**Humanities and Social Sciences Study Courses**	**4.0**
1	HSP377	General Sociology	2.0
2	HSP375	Sociology of Management	2.0
3	HSP376	Sociology of Personalities and Small Groups	2.0
4	HSP378	Politology	2.0
5	HSP379	Political System of Latvia	2.0
6	HSP380	United Europe and Latvia	2.0
7	IRU116	Organization and Management of Market	2.0
8	IUV415	Legal Regulation of Entrepreneurship	2.0
9	IUV456	Accounting and Finances	2.0
B6		**Languages**	**4.0**
1	HVD120	The English Language	4.0
2	HVD121	The German Language	4.0
3	HVD122	The French Language	4.0
4	HVD153	The Terminology Minimum in English	3.0
5	VSL711	Latvian for Foreign Students	1.0
C		**Free Elective Study Courses**	**6.0**
D		**Practical Placement**	**20.0**
1	MVR714	Practical Placement	20.0
E		**Final Examination**	**12.0**
1	MVR001	Bachelor Thesis	12.0