SELFEVALUATION REPORT

Professional Master Study Program

“CLOTHING AND TEXTILE TECHNOLOGY”
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1. The aims and the objectives of the study program

Professional master study program “Clothing and textile technology” gives opportunity to train professional Masters – high level specialists for clothing and textile enterprises, who are able to work as technologists, designers, constructors, managers of production and sale, heads of enterprises etc. Taking into account the significance of the industry in the country’s economy and the diversity of production, study programs of this field have to be improved on an ongoing basis, in the period of serious competition among new textile products and development of technologies. It is the reason why the Master studies of this branch are developed as professional studies, based on professional Bachelor studies, but professional skills of the academic Bachelor developing to professional qualification of production engineer. Alongside with the mentioned study programs of the professional Master, attention is paid on acquirement of diverse new technologies and research methods of textile and clothing branch.

1.1. The aims

- To train highly qualified clothing and textile production specialists with the knowledge of modern technologies and specialized designing methods of the branch required for the development of a country.
- Provide an integrated Master program that gives qualitative engineering education and prepares students for the further Doctoral studies in the field of material science field, textile and apparel technology sub-sector.

1.2. The objectives

1. To educate competitive specialists, demanded in the textile and clothing labor market, which are able to work with different level of technologies and understand main processes of the development of textile industry branches and related spheres (globalization, trade, cooperation, etc.).
2. To offer sufficiently wide Master study program, which contains different spheres of textile and clothing technologies, gives the students opportunity to acquire knowledge in the engineering of textile and clothing technology, sub-sector of materials sciences branch needed for further Doctoral studies.
3. To train specialists with extensive scope, able to work independently and creatively and lead the sphere of textiles, to solve problems of production management and sales, following the novelties of the new technologies.

2. Organization of the study program and its conformity to the aims and objectives of Riga Technical University

In the resolution of RTU senate, adopted in 25.02.08. „About the development strategy of Riga Technical University 2008 – 2015” the mission of RTU is defined in the following way:

To provide high quality scientific research, important for the future of Latvian national economy and to train highly qualified specialists demanded in international labour market.

One of the strategic aims is the excellence of studies: High quality, prestige, internationally certified studies, the aim of which are to train perceiving the
information critically and creatively, to think analytically, to develop skills of creation, training competitive specialists for international labour market.

In accordance with the strategic aims of RTU, the professional Master program of clothing and textile technology provides education in order to train highly qualified specialists, who are competitive in the labour market. Following things have been done to fulfill the above mentioned:

Program with powerful block of general and fundamental study courses and wide choice of profiling subjects with the designing and practical activity parts have been created.

Academic capacity has been developed, involving young scientists and specialists of the industry in the study process, promoting the international staff exchange, balancing the workload of studies, research and administrative work, supporting the professional and pedagogical development system of the academic staff.

Incentive study surroundings are being formed, offering modern study materials to the students, promoting e-learning, providing modern equipment in the laboratories.

Involving the students into scientific projects, encouraging their interest and skills in the research work, developing their skills in the inter-branch research.

Creating long lasting cooperation with foreign universities, to realize joint study programs and the exchange of students.

Improvement of the student attraction and growth, informing society about the study possibilities in RTU, planning regular study load, taking in account the previous qualification of the students, considering the academic ethics and promoting the cooperation with graduates.

The mechanism of the internal study quality system provides:

- The questionnaire of the students at the end of every semester;
- Lecturer mutual visits of classes;
- Presentation and reviewing of Master thesis, drawing enterprise representatives in the commission;
- The questionnaire of the students and branch enterprise managers.

All the results of these activities are discussed and analyzed at the meetings of the Clothing and Textile Department board and the Textile Material and Design Institute board.

The development and improvement process of the program is described in the annual self-evaluation reports, which are also discussed in the faculty board, reviewed by an external expert and confirmed by the senate of RTU.

3. Summary of the study program and included study activities

After obtaining the academic Bachelor’s degree and starting professional Master studies, catch-up study year is provided to study the subjects of technologies in scope of 14CP, and practice in the branch enterprise, in scope of 26CP.

The compulsory core and specialization/ limited choice study subjects which reflect the multiform spheres of textile and clothing branch, including the development tendencies of technologies and the branch, CAD system, the research of advanced textile materials, work methods and the management of technologies are included in the program. The program also provides the practice in a branch enterprise (6CP), working out of the final Master thesis (20CP) and its presentation. The subject block
of pedagogy and psychology provides the Teaching Methods of Engineering Subject, Pedagogy and Communication Psychology.

The special attention in the study process of a professional Master is paid to the development of research skills, which are necessary in working out the Master thesis and for further Doctoral studies. Besides the study courses to acquire research methods, accomplished parts of Master thesis, including the argumentation of the theme, determination of the aims and tasks and analyzing the results is presented in the special research workshops.

The knowledge in the common and specialized study courses of clothing and textile branch, including the specialization subjects is obtained during the lectures, practical and individual lessons, as well as studying the scientific literature. The professional skills in developing scientific technological problems, developing and introducing new technologies are acquired during the steps of analytic and experimental research, as well as in consulting with a scientific supervisor and the university staff.

Following skills are obtained during the studies of the professional Master:
- ability to use latest scientific achievements in developing particular tasks of textile and clothing branch;
- scientific and technological management skills;
- Ability to use specialized computer programs for designing of technologies and design samples, as well as analyzing the research results.

The highest level of the professional education provides also the communication skills that allow starting professional and social activities, cooperating with entrepreneurs and representatives of social, political and academic circle.
**THE CONTENT OF THE PROGRAM**

Study program confirmed in meeting of the Senate of RTU, 23.04.2007, Protocol No. 513

Name of the program: **Clothing and Textile Technology**

Level of the studies: Professional Master's studies (highest level)

Education classification code: 46542

Previous education:
1) second level professional studies – Bachelor’s degree in textile and clothing and engineer qualification in textile and clothing; or professional Bachelor’s degree in material technology and design and engineer qualification in clothing or material technology or equal education level.
2) Academic Bachelor’s degree in material sciences.

The scope of the studies:
1) 60 credits (CP)
2) 100 credits (CP)

Nominal duration of the studies:
1) 1,5 years for full time studies and 2 years for part time (extramural) studies;
2) 2,5 years for full time studies and 3 years for part time (extramural) studies;

Obtainable degree:
1) Professional Master degree in Apparel and Textile Technologies;
2) Professional Master degree in Apparel and Textile Technologies and qualification of Apparel and Textile Manufacturing engineer.

Head of the program: Prof. Ausma Vilmsons

The code of the study program: **WGV0**.

Enrollment of the students since 2008/2009 academic year

<table>
<thead>
<tr>
<th>Content of the studies</th>
<th>1)</th>
<th>2)</th>
<th>Extra year 1.</th>
<th>2.</th>
<th>3.</th>
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<tbody>
<tr>
<td></td>
<td>60 CP</td>
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<td>1. sem</td>
<td>2. sem</td>
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<td><strong>COMPULSORY CORE</strong></td>
<td>14 CP</td>
<td>20 CP</td>
<td>6</td>
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<tr>
<td>1 Applied Mathematics</td>
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<tr>
<td>2 The Methods of Computer Aided Designing of the Product</td>
<td>2 CP</td>
<td>2 CP</td>
<td>2</td>
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<tr>
<td>3 Methodology of the Research</td>
<td>2 CP</td>
<td>2 CP</td>
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<tr>
<td>4 The Development Strategy of the Textile Industry</td>
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<td>5 Progressive Textile Materials</td>
<td>2 CP</td>
<td>2 CP</td>
<td>2</td>
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<tr>
<td>6 Specialization Research workshops</td>
<td>2 CP</td>
<td>2 CP</td>
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<tr>
<td>7 Textile Chemistry</td>
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<tr>
<td>8 The Motivation of Clothing and Textile Technologies</td>
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<tr>
<td>B</td>
<td>LIMITED ELECTIVES</td>
<td>20 CP</td>
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<td>Logistics of Apparel Branch</td>
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<td>1.7</td>
<td>The development tendencies of clothing assortment</td>
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<td>1.8</td>
<td>Management of Clothing Technology</td>
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<td>1.9</td>
<td>Teaching Methodology of Clothing Technology</td>
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<td>1.11</td>
<td>The Method of Photo Measurements for Designing of Garments</td>
<td>2 CP</td>
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<td>Research of Apparel Quality</td>
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<td>Artistic Technical Creative Work</td>
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<td>Production of Technical Textiles</td>
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<td>Psychology</td>
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<tr>
<td>D.</td>
<td>PRACTICE</td>
<td>6 CP</td>
<td>32 CP</td>
<td>20</td>
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<td>26 CP</td>
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<td>6 CP</td>
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<td>E.</td>
<td>STATE EXAMINATION:</td>
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<td>60 CP</td>
<td>100 CP</td>
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</table>

* - practice for students with academic Bachelor’s degree

The program is accepted at the meeting of the Materials sciences and applied chemistry Faculty board in 12.04.07., protocol N4. Chairman: prof. V.Kampars.

The program was evaluated in 29.03.2007 at the meeting of the study program commission in the branch of Textile Material technologies and design. Chairman: assoc. prof. G. Vinovskis.
4. System of Evaluation

The quality of the study process is controlled by discussing the results at the meetings of the department of Clothing and Textile Technologies, and at the meetings of Institute and Faculty boards.

Academic progress of the students is evaluated according to the 10-grade system (Resolution of RTU Senate No. 402, 24.04.1995) in the exams and course papers, and 2-grade system in tests. Examination is conducted in written form according to RTU Senate Resolution of Taking examinations in RTU, adopted in 1998.01.26 and 1998.03.30. As of 1st of September, 2010 new regulation “On evaluation of study results” comes into force (Resolution of senate No. 539, 29.03.2010), which envisages written or oral, composite or electronic taking of examinations. Exam questions are set up and delivered to students in time by the lecturer of the subject, coordinating with the leading lecturer.

Tests are provided and realized in many study courses in order to motivate the students in acquiring knowledge regularly.

The practice is organized according to the practice directions of the study proctor of RTU. At the end of the practice students’ reports are presented and the commission, set by the head of the department, evaluates them.

At the end of every examination period, the questionnaire of students about the quality of study process is organized. The questionnaire is voluntary and anonymous. The filled out questionnaire forms are left in a special box. The included questions concerns the evaluation of the lecture quality, practical and laboratory works in the study subjects, as well as quality of the exam questions, teaching and test efficiency and conformity of lecturers (competence, personal qualities). The questionnaire results are discussed in the meetings of the department and described in the annual self-evaluation reports.

Employers are being involved in the quality control of the study program. Representatives of employers take part in the reviewing of Master thesis and in the commission of awarding the professional qualification. The actuality and novelty of the project topics and the quality level of theoretical and practical part of the projects are discussed with the representatives of employers. The discussion results are used in further development of the study program.

5. The practical implementation of the higher education program

5.1. Applied study methods and programs

The work forms of studies are lectures, practical and laboratory works, workshops, study projects and practice. By developing the recourses of Textile Materials Technologies and design institute, different technical means are used in the process of studies: projectors, OHP, video players, sample collections, posters and diagrams. Students are able to obtain study materials and lecture summaries prepared for copying in most of the study courses. By developing the web portal ORTUS, students and lecturers are able to use its e-learning section more actively, thus study materials can be put and used digitally. It significantly raises the efficiency of study process, as students already have acquainted themselves with the contents before the lecture and are capable of wholesome work.

Electronic mail is used in communication with lecturers, during the development of the Master thesis. Thereby part of consultations are realized extramurally.
Students inform about the aims and results of their research during the scientific workshops and express their opinion about the work of their group mates. Discussions are very significant part of the study process. The developed study projects are presented and discussed. Thus students learn not only describing the results of their research, but also evaluating their group mate works and distinguishing the development potential of the projects.

5.2. The involvement of students in the scientific work

The scientific work is important part of the study process. Students acquire skills of scientific work already during the Bachelor studies. Research methods in designing and optimization of apparel and textile technology are included in Master studies. Students choose the theme of the Master thesis according to the fields of scientific research of our lectures:

“The improvement of clothing construction methods”, “Designing of Smart clothing” – prof. A Viļumsone;
“The research of technological properties of glass fiber filaments” – assist. prof. N. Ozoliņa;
“Research of apparel merchandising, terminology and anthropometric parameterizing”; “Evaluation methodology of special assignment apparel” – as. prof. I. Krieviņš;
“The improvement of clothing technological processes”; “Integration methods of electronic systems in garments” – assist. prof. I. Ziemele, lecturer A. Kalniņa;
“The research of sewing technological equipment work processes”- assist. prof. U. Briedis;
“Clothing designing in CAD”- lecturer I. Dāboļiņa;
“The technologies of smart textiles and clothing”- assist. prof. I. Baltina.

6. The perspective evaluation of the program

6.1. The compliance of the program to the standard of professional higher education

The study program corresponds to the regulation No. 481 of Cabinet of Ministers of LR “Regulations about the state standard of the second level higher education”.

The total of the program:
-for students with a Bachelor’s degree, acquired in four year studies, is 60 CP, total time of studies - 5.5 years; study time in full time Master studies – 1.5 years, or 2 years extramurally;
-for students with a Bachelor’s degree, acquired in three year studies, 100CP with the study time of 2.5 years (full time studies) or 3 years extramurally.

The basic part of the program - 34 CP.
Of those:
- study courses insuring the acquirement of the latest achievements in the branch 12 CP;
- research, creation, designing and management courses
20 CP;
- the courses of pedagogy and psychology – 2 CP;
The compulsory core is divided in compulsory core (part A) – 14CP;
*and limited electives (part B) – 20 CP;*
Practice – 6 CP;
and Master thesis ______________________________________ 20 CP.

The enlarged (100 CP) program is supplemented with main profiling courses of the professional Bachelor program *Clothing and Textile technology* (14CP) and practice (26 CP) to achieve the professional qualification of manufacturing engineer.

### 6.2. The correspondence of the study program to analogical programs

The study program was compared with:

- professional Master (Master of science) program *Textile technologies and textile management* (Textiltechnologie – Textilmanagement) in Reutlingen University of Applied Sciences (FH Reutlingen);
- the Master programs *Textile Engineering* and *Engineering of Clothing and Polymer Products* in Kaunas Technological University.

<table>
<thead>
<tr>
<th>The groups of study courses</th>
<th>RTU CP/ECTS</th>
<th>FH Reutlingen ECTS</th>
<th>KTU ECTS</th>
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</thead>
<tbody>
<tr>
<td>Compulsory</td>
<td>14 / 21</td>
<td>18</td>
<td>51</td>
</tr>
<tr>
<td>Limited electives</td>
<td>20 / 30</td>
<td>42</td>
<td>12</td>
</tr>
<tr>
<td>Pedagogy and Psychology</td>
<td>2 / 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Projects</td>
<td>-</td>
<td>30</td>
<td>27</td>
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<tr>
<td>Practice</td>
<td>6 / 9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Master Thesis</td>
<td>20 / 30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>60 / 90</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

Compulsory +
Limited electives

| Mathematics and Methodology of Research      | 12 + 0      | 6                  | 4        |
| The Methods of Computer Aided Designing      | 2 + 6       | 4                  | 4        |
| Progressive Textile Materials               | 2 + 8       | -                  | -        |
| The Development Tendencies of Textile Branch and Assortment | 2 +12 | 4 | 4 |
| Progressive Technologies                     | 0 + 8       | 20                 | 10       |
| Research of Quality                         | 0 + 2       | 8                  | 4        |

The two year master program *Textile Technology* in Reutlingen University of Applied Sciences provides two semester studies at university, one semester in the interconnection university or alternatively - development of the project and Master thesis during the final - 4th semester. The total scope of the program is 120 ECTS.

Study courses provide 60 ECTS that is equal to local 40 CP. All students have to acquire following study subjects in the compulsory core:
Quality in Textile Industry 2 CP
Ecology management in Textile Production 2 CP
The Designing of Functional Textile 10 CP
Automation and Control of Processes 2 CP
Applied hydrodynamics and aerodynamics 2 CP

Five textile technologies courses (4 CP) from 7 available have to be chosen obligatory:
The technology of Yarns
Weaving technology
Knitting technology
Non-woven materials and recycling of raw materials
Composite materials
Textile chemistry
Clothing technology

The master program *Textile Technologies and Textile Management* in Reutlingen University of Applied Sciences after three year Bachelor studies provides two year Master studies. That is one semester less compared to studies in RTU, where Professional Bachelor studies last four years, but Professional Master Studies last 1.5 years.

The Master Programs *Textile Engineering* and *Engineering of Clothing and Polymer Products* in Kaunas Technological University provide 2 years studies after 4 year Bachelor studies. During the first three semesters students acquire study courses on average 14 CP every semester, as well as the research project (6CP). In the last semester students develop the final Master thesis (20CP).

Total study time at Kaunas Technological University is longer for a semester. That is equal to 3 research projects developed, single every semester. Research skills are supplemented in following subjects: *Methodology of Research* and *Specialized seminars of research work*.

The greatest part of study courses in the study program of Kaunas Technological University is included in the compulsory core. The distribution of courses in compulsory and limited electives in the Reutlingen University of Applied Sciences is similar to the course division in RTU, but at the same time, our program offers much wider selection: total amount of study courses with 54CP are offered, from which students have to choose total 18 CP courses. The nomenclature of study courses essentially is not different. Mostly those are subjects related with acquirement of new materials and progressive technologies.

The Master program in Kaunas Technological University does not provide practice, which is included in the program of RTU according to regulation No. 481 of Cabinet of Ministers “Regulations about the state standard of the second level higher education”.

### 6.3. Results of the employers’ questionnaires

Textile Technologies and Design Institute of RTU carried out the questionnaire in the branch enterprises to clarify what kind of specialists are necessary for Latvian producers to work successfully in the existing conditions of labour market.
From more than 700 textile enterprises in Latvia, questionnaires were sent to the 80 largest companies. The missing specialists are designers, constructors, technologists, production managers, marketing specialists, high level managers, but the extended knowledge in design and management of production processes, logistics and marketing.

Taking into account the development project of the textile branch and the results of the employers’ questionnaire, following textile industry strong points and development options were set out:
- the processing of fine cotton fibres and production of cotton fabrics;
- the production of fire-resistant woolen and wool mixture fabrics, the production of woolen and wool mixture yarn for knitted fabrics;
- the production of flax fiber and fabrics, etc;
- the production of large size clothing and clothing for disabled persons.

In order to develop the use of local textiles organization knowledge of individual sewing workshops should be given in the sphere of design and management of production processes.

In the sphere of clothing design the improvement of industrial design should be achieved in protective clothing and coveralls, underwear, swim-wear, sunbathing-wear.

The results of the questionnaire will be used to define future themes of the Master thesis. New research courses have been started with suggestion from light industry enterprises, which are also included in the themes of Master Thesis. Those are:
- Production possibilities of flax and hemp fiber;
- Individualized production of apparel;
- Improvement of special apparel designing.

The average demand of new specialists during next 6 years could be 15-20 people per year.

7. Students

Matriculation in study program Clothing and textile technology was started in academic year 2008/2009. In the first year six students were matriculated and financed by state budget, total amount of students were 11, but in the year 2009/2010 - 11 students. It is planned to matriculate 15 students in the academic year 2010/2011.

Seven Master students graduated in 2010.

The Themes of Master Thesis and evaluation of the State examination commission is given in the Appendix 7.

Four Master students of Apparel and textile technology study program received ESF purpose scholarship, which is provided for the best students.

Taking part in students’ government work and in meetings of the institute and councils of the faculty and the university, students can also influence the study process. Students constitute 20% of the members of these institutions. When making decisions, student opinion is always discussed and taken into account.
8. Academic staff

8.1. The structure of academic staff, its division in age groups, qualification

The study program of the professional Bachelor is realized by Clothing and textile department, leaded by professor, Dr.sc.ing. A. Viļumsones. Following academic staff is involved in study and scientific work:

2 asoc.prof., Dr.sc.ing. (I. Krieviņš, I. Baltiņa) and 1 leading researcher Dr.sc.ing (G. Vinovskis);
3 assist. prof. Dr.sc.ing. (N. Ozoliņa, U. Briedis, I. Ziemele);
1 lecturer, Dr.sc.ing. (I. Dāboliņa);
1 lecturer, Mg.sc.ing. (A. Kalnāja).

Distribution in age groups:

- Under 30 – 1;
- Under 40 – 1;
- Under 50 – 3;
- Under 60 – 3; Over 70 – 1;

Eight from nine members of the staff are doctors of engineering sciences, 5 of them have not reached age of 50, but 3 are a little more than 50 years old.

Dr.habil.sc.ing. G. Strazds, profesor, Dr.habil.sc.ing. V. Kancēviča, RTU emerit. prof., Dr.habil.sc.ing. B. Okss, Dr.sc.ing. I. Sedliņš, Dr.sc.ing. D. Beljakova, as well as Mag.art. S. Deķse and Mag.art. D. Šķiņķe, Doctoral students I. Šītvjenkins, M. Manipšare are involved in study and scientific work too.

8.2. Administration of projects

- “Project orientated training and teaching experience in Germany”, February 1 – March 31, 2009; Germany – Latvia, head I. Ziemele.
- “Contract with Latvia National Armed Forces (NBS) Command of Provision (NP) about expertise services” (head: I. Ziemele).

Asoc. Prof. I. Krieviņš is actively involved in Science Academy commission of terminology of Republic of Latvia, as chairman of subcommission of textile industry terminology. Following things accomplished in the period of report:

- Proposals on Latvian translation amendments in 96/74/EK directive (~60 amendments) and later reorganization into new directive were submitted to
LR EMInner market department EU inland market coordination department (leader: A. Upena) in November 2008.

- Explanations on EN 14682 terms and later on EN 9073 terms were sent to NSI LVS (leader: A. Lauzis) in autumn 2008.

The consultations have been given to the sector of custom tariffs and payments of Riga Regional Customs Department during all the period.

DTCT is associated partner in the 7th frame program’s project "F2F Fashion to Future".

Within framework of ESF funded project “Qualification rising of manufacturing personnel in the stock company Neja&Ko”, (project No. AKA/1.3.1.1.4/08/01/419) given help into realization of the project.

8.2.1. International projects

The project Nordplus Neighbour „Nordic Centre for Innovative Studies and Advanced Training in Textiles” (prof. S.Kukle, prof A.Vilumsone), cooperating with Kaunas Technological University, Swedish Boras University and Finnish Tampere Technological University.

Leonardo da Vinci program project „Innovation Transfer in Textiles” „Lifelong Learning Programme (October 2008 – September 2010). DTCT cooperates with universities from five countries: University Leed (UK), TEI of Piraeus (Greece), Gheorghe Asachi Technical University of Iasi (Romania), University of Minho (Portugal), University of Maribor (Slovenia).

8.2.2. European social foundation projects

Three ESF projects were realized in the department of clothing and textile:

The practice of textile and clothing engineering studies at clothing production enterprises (2006);

The technological practice of the academic staff of RTU at textile and clothing production enterprises (2007);

The modernization of textile and clothing technologies study process (2007).

The project “Development of intersectional scientific group for evolving new functional properties for smart textiles and integration into new products” has been started in the scope of EU program’s “Human resources attraction to science” (December 2009—November 2012). In the realization of the project at least seven Doctoral students are involved at the moment.

8.2.3. Improvement of the professional skills

The improvement of professional skills of the academic staff is realized by the way of scientific researches to develop new technologies, publishing the results of scientific works, taking part at international scientific conferences, attending branch fairs, courses and cooperating with production enterprises.

Assoc. Prof. I. Krievišš as an expert represents LR at the textile marking commission of European Union.
Prof. A. Viļumsone is the external specialist in questions of textile at the international company of quality system certification “Bureau Veritas Quality International”.

Assist. prof. I. Baltiņa cooperates with „ACG Nystron” dealer in Latvia in questions of sewing equipment and quality control of textile materials, as well as in questions of quality evaluation of textile materials for purchase of bed clothes for hospitals.

Significantly improvement of professional skills of the academic staff is affected by cooperation and exchange of experience with other universities. In Nordplus Neighbour project „Nordic Centre for Innovative Studies and Advanced Training in Textiles” (prof. A.Viļumsone) our university cooperates with Kaunas technological University, Swedish Boras University and Finnish Tampere Technological University. Our lectures have had possibility to get acquainted with the experience of the colleagues to train the branch specialists, to see study and scientific laboratories, to get acquainted with the content of several study courses and their teaching methodologies at Kaunas and Tampere universities.

Six lectures of the clothing and textile department did fieldwork in the manufacturing enterprises. This experience allows improving the qualification of new specialists and approximating their theoretical knowledge to the competences needed in real production circumstances.

Asist.prof. N. Ozoliņa, asist. Prof. I. Baltiņa and I. Ziemele attended the courses of professional development in pedagogy and got a certificate in “Competence development of academic personnel in pedagogy and IT sphere”.

8.3. The amount of doctors of science and professors
There are 8 doctors of engineering sciences among 9 staff teachers.

Study program is realized by one professor and two associate professors.

8.4. The renewal of academic staff

The ageing of academic staff during next six years is not expected as only one person will reach the age of pension. Lecturers I. Dāboliņa and D. Beļakova have finished their Doctoral studies, presented their doctorate thesis and will be elected for assist. professor. Other Master and Doctoral students, who mostly work for their scientific projects now are going to be involved in the study work at the clothing and textile department.

8.5. The qualification and competence of the academic staff

The qualification and competence of the academic staff can be evaluated by its participation in the above mentioned projects and activities and also by scientific publications and presentations at scientific conferences during the previous academic year.

8.5.1. Scientific publications in academic year 2008/2009:

- Ziemele I., Beļakova D., Briedis U., Possibilities to introduce lean


8.5.2. Scientific publications in academic year 2009/2010:

1. I. Baltiņa, Z. Zamuška, G. Strazds. Latvijā audzēto kaņepāju šķiedru kvalitātes vērtējums / RTU zinātniskie raksti, Materiālzīnātne, Sērija 9, Tekstila un apģērbu tehnoloģija, Sējums 4, 9.-15.lpp

2. I. Šahta, I. Baltiņa, J. Blūms. Termoelektriskā modula integrešanas iespējas cilvēka mikroklimatu regulējošos izstrādājumos. Patentu apskats / RTU zinātniskie raksti, Materiālzīnātne, Sērija 9, Tekstila un apģērbu tehnoloģija, Sējums 4, 16.-24.lpp

8.5.3. Presentations in conferences


4. I.Šītvijenkis Presentation subject is Soldier Individual Protection System – Design Philisophy, Military Technological exhibition. Seminar. Tartu


9. Funding sources and infrastructure ensurance

The realization of the study program is financed from national budget. Additional financial resources are attracted from ESF projects, contracts and scientific projects.

Laboratory and practical work is organized in accordance with study program, study plans and takes place in the premises of the Faculty of Materials Sciences and Applied Chemistry, 14/24 Āzenes Str., 18 Āzenes Str. and in the laboratory building of Textile and Clothing institute, 19c Ganiņu dambis. Classes take place in specialized laboratories: the lab of textile and materials sciences, the lab of knitting technology, the lab of sewing technology, the lab of sewing equipment, the lab of weaving equipment, the lab of spinning and fiber material pre-treatment, CAD computerized classroom.

The previous refectory building in Kipsala, Āzenes 18 will be reconstructed to join, now in different places situated, laboratories and wherewith to ease the mutual communication of lecturers, as well as, to plan optimal study process, in the near future. It agrees with the development strategy of the Kipsala complex of RTU. All textile technologies and design departments and laboratories are planned to place in this building. The reconstruction is financed by financial recourse of ERAF projects. Renovation project of this block was started in academic year 2009/2010.

The equipment of textile materials science laboratory is significantly renovated during the last few years, using financial recourses of the budget and ESF projects. Following equipment has been purchased:
- Martindale Abrasion and Pilling Tester;
- Air Permeability Tester;
- Shirley Stiffness Tester;
- AATCC Crockmeter;
- Spray Rating Tester;
- Fryma Fabric Extensimeter;
- Shirley Crease recovery Tester;
Ironing table;
Steam generator (for detection of linear size alterations when ironing and
In the impact of steam);
Household sewing machine;
Overlock (for preparation of samples for seam resistance tests);
Projector and screen;
Scanner;
Computer and monitor for operation of universal tester Instron.

The technical bases of the textile and clothing technologies department is
improved – new 3 and 5 overlocking stitch industrial sewing machines EMERY
EM600, universal sewing machines PFAFF-9063, multi-thread covering stitch sewing
machine – PEGASUS W 1560, professional ironing equipment with steam-boiler
BATISTELLA, buttonhole machine „Taking” TK-888 and the embroidery machine
„Brother” have been purchased.

The clothing CAD laboratory is equipped in good level. Clothing construction is
trained using German computer program GRAFIS, clothing designing system
LECTRA (France) and 3D program STAPRIM (Russia). System TexDesign
(Germany) is used to design textiles and clothing. They are modern automatized
designing systems widely used in the branch enterprises in the world. Specialized
computer engineering is also used in the lab: large size digitizer and a plotter for
printing patterns.

Versions of software TexDesign (Germany), LECTRA (France), GRAFIS
(Germany) were updated and new “3D Fit” module for software LECTRA was
purchased during the period of report, which carries out in plane designed apparel
"trying on" on the virtual 3D dummy. This program is available only in RTU in-
between all Northern and Eastern region universities.

Using the funds of European Social Funding, DTCT special literature library has
been significantly extended, including standards of research methods.

Important investment has been made into IT development and provision
improvement. Every lecturer in DTCT has his own work place, connected to internet.
Interactive study portal www.ortus.rtu.lv has been developed and students and
lecturers of the institute actively utilize it. Students may obtain all necessary
information in this portal during the study process. Current learning materials
(annotations, requirements for successful passing the course, lecture plans, materials,
necessary literature, etc.), information on student's progress and passed subjects,
urgent notifications, library information, access to scientific literature and data bases,
e-mail, etc. is available in the portal. It is possible to communicate with every lecturer
and course mates in this portal. Discussion forums have been created in the portal and
regular polls take place. Portal was introduced in 2007 and since then non-stop
improvements are made.

10. Public relations

10.1. Collaboration with employers

The department has good cooperation with many employers. The chairman of the
enterprises of light industry Dr.sc.ing. G. Strazds informs the students and the lectures
about novelties in the branch, at least twice a year.
SIA “Pionieris2” provides the place of practice for students, possibility to work with their computer systems and equipment. The enterprise has provided department with sewing threads and fabrics free of charge.

SIA “Anastasija” also has provided study process with their left over fabrics free of charge.

DTCT has received a present from “SIA Solutions” – digital photo camera, which comply with technical requirements of 3D photo measurement system and is used in learning and research work.

Important collaboration partners are state institutions as well. The Ministry of Defense of LR and the Provision command of National Armed Forces have ordered research about the improvement of uniform quality and the development of the specification of Tactical Modular Webbing. Uniform specifications are being developed for the Youth Guard Centre, involving students in the project. Consultations are given to the Regional Department of Riga Customs.

Professional evaluation of textile materials or apparel specification quality has been carried out on request of companies, state administration or law enforcement bodies.

10.2. Cooperation with the Latvian and foreign universities

The cooperation among universities is realized in several ways.

The cooperation with the Fashion Department of Art Academy of Latvia is realized in following ways: training of students of Art Academy in clothing construction and designing with CAD is organized.

The Department of textile and clothing, Art Academy of Latvia, University of Latvia and the professional associations of manufacturers cooperate at the council of Latvian Design Foundation to develop the branch, where the most important activity direction is bringing together universities and employers, in order to encourage capacity of Latvian companies in production of competitive goods with high added value.

Cooperation with Kaunas Technological University, Swedish Boras University and Finnish Tampere Technological University in the project “Nordplus Neighbour” is carried out “Nordic Centre for Innovative Studies and Advanced Training in Textiles”, which is led by professor E. Strazdiene of Kaunas Technological University. RTU participation in the project is coordinated by professor S. Kukle, with collaboration of prof. A. Vilumsone.

Distance learning course "Apparel designing" testing was made within framework of this project, with participation of Tampere University students and project leader prof. E. Strazdiene.

At the same time meeting of all project coordinators took place in Riga, where technical and legal conditions of the course were discussed.

Prof. A. Vilumsone gave 8 hour lecture course on problems of 3D apparel designing in the Economic and Technical applied science university of Berlin, in the framework of EU cooperation agreement SOCRATES/ERASMUS, but in June 2008 prof. Mirella Blaga from Asahi University, Romania gave lectures on Fault analysis of knitted garments.

Professor N. Razdomahins from St. Petersburg Technological and design university (SUTD) visited RTU and gave a talk on his 3D garment design method, which has no analogue in the world at the moment.
In February and March, 2008, the teachers and students of the Department of Textile and Clothing Technologies took part in activities about wise textiles and clothing and their problems, organized by company “e+t+t”, RTU, LIAA and Boras University. Both in workshop and studio results were presented by DTCT Doctoral students.

Workshops were organized in RTU “Project orientated training and teaching experience in Germany” (February 1 – March 31, 2009) in collaboration with Emden University (Germany). DTCT lecturers got acquainted with project orientated training methods when visiting Emden University and Oldenburg/Ostfriesland/Wilhelmshaven Applied Sciences University.

_Leonardo da Vinci_ program project „Innovation Transfer in Textiles” „Lifelong Learning Programme (October 2008 – September 2010). DTCT cooperates with universities from five countries: University Leeds (UK), TEI of Piraeus (Greece), Gheorghe Asachi Technical University of Iasi (Romania), University of Minho (Portugal), University of Maribor (Slovenia). As a result of collaboration, we have got acquainted with learning courses developed by foreign country professors, discussed contents and searched for the most effective e-learning means and methods.

Collaboration with other faculty's departments has significantly improved in the recent years (also thanks to IZM and RTU research projects), especially with Technical physics institute and Polymer material institute. In realization of the projects also DITF researchers are involved. Thanks to this collaboration, project “Development of intersectional scientific group for evolving new functional properties for smart textiles and integration into new products” was submitted to EU program „Human resource attraction to science” in January 2009, which was approvingly evaluated by experts and implemented in December 2009.

### 11. Closing of the program

In case of closing the professional master program of Clothing and Textile Technology, students will be able to continue their studies in the academic Master study program _Design and technology of materials_, which is accredited till 2012. The accreditation certificate included in annex.

### 12. Development plan of the study program

#### 12.1. The improvement of marketing

12.1.1. The research of demands of the study program for the national economy:
- Cooperation with the Association of Light Industry Enterprises of Latvia to make polls at the leading textile enterprises about specialist demands and nomenclature;
- To clarify the necessary branch specialists in the education system (in professional education establishments);
- To research the development potentialities of the study program in accordance with development of the branch technologies;
- Executives: assist. prof. I. Ābele, the head of DTCT A. Viļumsone

12.1.2. The popularization of the study program:
- Regular renewal of DTCT home page;
- Regular renewal of the informative brochure;
- Direct contacts with vocational and secondary schools;
• Participation at the fair “School” and in the behind-the-scene tours of RTU;
• Information in mass media;
  Executives: lecturer I. Dābolina.

**12.2. Finance attraction to fulfill the program**

2.1. To develop projects, in order to attract finances from EU funds.
  Executives: as. prof. I. Baltija, the head of DTCT A. Viļumsone.
2.2. To develop and participate in research projects and contracts to attract finances from the EU, state and enterprises.
  Executives: I. Ziemele, the head of DTCT A. Viļumsone.

**12.3. The improvement of the study program**

3.1. The improvement of the study program according to the development tendencies of the textile industry.
3.2. Regular student and graduate opinion questionnaire for adjusting the content of the studies.
3.3. Free choice course supplementation with branch technology subjects.
3.4. Development of extramural and night-school courses in cooperation with employers (“Valmieras Stikla Skiedra”, “Vaide” etc.).
  Executives: DTCT deputy director N. Ozoliņa, the head of DTCT A. Viļumsone.
3.5. Involvement of the academic staff and students in the development of teaching aids and text books in Latvian language.
  Executives: the head of DTCT A. Viļumsone.

**12.4. The development of technical base**

4.1. Preparation of the project for financial support of EU funds to improve the training and research base of DTCT.
4.2. The reconstruction of 18 Āzenes Str. building for study process of textile technologies.
  Executives: assit. head of DTCT R. Hermane, head of DTCT A. Viļumsone.

**12.5. The improvement of professional skills and renewal of the academic staff**

5.1. To involve new academic staff members in full time work at DTCT and give them opportunity to study in the Doctoral program.
5.2. Cooperating with European universities to provide in-service training for the young academic staff (with or without Doctor Degree).
5.3. To form reserve of leading specialists and teachers.
5.4. Constantly take care of formation the creative psychological mood in the collective of DTCT.
  Executives: assit. head of DTCT R. Hermane, head of DTCT A. Viļumsone.

**12.6. The improvement of the research work**

6.1. To involve more students in development of particular scientific themes.
6.2. To develop new, market oriented scientific research.
6.3. To involve students in the international research projects, cooperating with foreign universities.
  Executives: all academic staff of the department.
6.4. To organize branch leading scientist seminars and lectures.
Executives: the head of DTCT A. Viļumsone.

6.5. To raise the participation of students in the scientific conferences and publishing of finished studies.

Executives: all academic staff of the department.

12.7. Accomplishment of the performed activities in the previous year

<table>
<thead>
<tr>
<th>No.</th>
<th>Plan</th>
<th>Accomplishment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Bonding of Master thesis themes with current scientific directions of the field.</td>
<td>Done</td>
</tr>
<tr>
<td>2.</td>
<td>More active involvement of Master students into DTCT contracts and research projects</td>
<td>Done</td>
</tr>
<tr>
<td>3.</td>
<td>Stimulating of timely Master thesis development and presentation, in order to minimize potential number of academic debtors</td>
<td>Partially done</td>
</tr>
<tr>
<td>4.</td>
<td>Laboratory equipment improvement and renewal in the DTCT department</td>
<td>Done</td>
</tr>
<tr>
<td>5.</td>
<td>Progression of 18 Azenes Str. Building reconstruction within possible limits, ensuring the necessary information</td>
<td>Done</td>
</tr>
<tr>
<td>6.</td>
<td>Forming of stimulating study environment, offering modern study materials, e-learning possibilities and modern laboratory equipment for the students.</td>
<td>Done</td>
</tr>
<tr>
<td>7.</td>
<td>Supporting collaboration with foreign universities, carrying out student exchange.</td>
<td>Done</td>
</tr>
</tbody>
</table>

Director of “Clothing and textile technology” study program, professor                  Ausma Viļumsone
ANNEX

CV
Academical staff
CURRICULUM VITAE

Name, Surname: Ausma Vilumsone
Academic degree: Dr.sc.ing.
Nationality: Latvian
Telephone: 67089565; 26565463
Fax: 67089349

Education
1981 - 1985 Art Academy of Latvia, drawing and technical drawing teacher
1973 – 1978 Textile and Light industry Institute of Leningrad, an engineer – constructor – technologist of clothing

Professional activities:
1978 - 1979 Constructor at company “Rigas Modelu Nams”

Pedagogical activities:
June, 2007 Professor at the Institute of Textile Materials Technologies and Design (ITMTD) of RTU
June, 2001 Associate professor of RTU
1994 –
June 2001 Assistant professor of ITMTD of RTU
January 1994 Lecturer
1987 – 1989 Assistant
September 1979 –
July 1981 Assistant at the Department of Light Industry Machinery and Technology of Riga Polytechnic Institute

Administration:
May 2005 Head of the Institute of Textile Materials Technologies and Design
2005 Member of the grant commission of the Faculty of Materials Sciences and Applied Chemistry (FMSAC)
2005 Member of the purchasing commission of FMSAC
2005 Member of the council of FMSAC
2005 Member senate of RTU
June 2003 Head of the Clothing and Textile Department

Scientific work:
Computerized designing of clothing, the systematization of ornaments and constructions of Latvian folk textiles.
**Participation in the research work:**


**Management of ESF projects:**

- 2006 – 2007. The modernization of textile and clothing technologies study process.

**The total amount of scientific publications: 34**

**Improvement of Professional skills:**

- January 2007. The training of clothing designing program COMTENSE.
- February 2007. The training of clothing designing program STAPRIM.
- 2001. German language courses of Virtual University of Hagen Wirtschaftsdeutsch fuer Letten.
- August 2002. Training of clothing designing program LECTRA (France) in Tallinn.
- July 2001. Training of textiles and clothing designing program TexDesign (company Koppermann, Germany) in Riga.

**Professional and social work:**

- Since 2005 - The plenipotentiary of RTU at the council of Latvian Design Foundation.
• Since 1999 - The external specialist in questions of textile at the international company of quality system certification “Bureau Veritas Quality International”.
• 2003. The expert in questions of the purchase of textiles and clothing at The Ministry of Defenses of Republic of Latvia.
• The cooperation coordinator of the Textile and Clothing Technology Department with the Department of Clothing Techniques of University of Applied Sciences in Berlin (FHTW-Berlin).
• July 28th, 2003. The lecture about the development of clothing CAD systems at international students’ summer courses “Best Riga”.
• July 2006. 10 lessons for the teachers of Purvciema Trade school in the cope of ESF project.

Participation in EU programs:

• July 2004 - “The comparative evaluation of clothing construction methods”, “Potentialities of clothing 3D designing” at Reutlingen University of Applied Sciences for EU education program SOCRATES.
• 2004 – 2007. Participation in the project Nordplus Neighbour „Nordic Centre for Innovative Studies and Advanced Training in Textiles”.

Language skills:

Latvian (native)
English (colloquial speech)
Russian (fluent)
German (very well)
**CURRICULUM VITAE**

1. **Name, Surname**  
   **Nadežda Ozoliņa**

2. **Working place**  
   RTU, Faculty of Materials Sciences and Applied Chemistry, Institute of Textile Materials Technologies and Design.

3. **Qualification**  
   1971 Production engineer, Riga Polytechnic Institute;  
   Theme: “Structure and Technology of filter fabric for aluminium oxide industry”

4. **Practical work**  
   1971 – 1973 Latvian Scientific research institute of light industry, research associate

5. **Pedagogical work**  
   1973-1976 post graduate, Institute of Textile and Light Industry in Leningrad;  
   1976-1978 junior lecturer, Riga Polytechnic Institute;  
   1978-1986 lecturer, Riga Polytechnic Institute;  
   1986 until present, Assistant professor, Riga Technical University

6. **Field of scientific work**  

7. **Scientific works**  
   Head of engineer and master works; Theme – research of different new production technologies

8. **Main publication in last 5 years**  
   - 2004, Quality of texturized glass fibres. Conference „Modern technologies and equipment in textile industry” (Текстильь-2004), Moscow.  
   - Development possibilities of small textile factories in Latvia (Scientific articles, No. 9. RTU, 2007)  
   - The influence of sizing process to physical properties of glass yarns. (Scientific articles, No. 9. RTU, 2007)

9. **Total number of scientific works**  
   41

10. **Languages**  
    Latvian, Russian, partly German.

11. **Improvement of qualification**  
    Acquainted with new weaving technology equipment in factories “Juglas manufaktura”, „Klippan Saule” and „Valmieras stikla skiedra”. Participation in international exhibitions and conferences. Acquaintance with new technical literature in RTU
12. Professional and social work

- Member of Academic meeting of RTU
- Member of MŠ Faculty board
- Member of State qualification commission
- Member of Commission for awarding of scientific degree and professional qualification

library and Technical library.
CURRICULUM VITAE
Genrihs Vinovskis
Doctor of Engineering Sciences

Working place: Riga Technical University, Faculty of Material Sciences and Applied Chemistry; Institute of Textile Materials and Design.
Position: Part time Associated professor of Apparel and textile technology department.
Place of residence: Flat 6, 39 Hipokrāta Str., Riga, Tel.: 7515804

Qualification:
- nostrificated Latvian doctor of Engineering Sciences (Dr.sc.ing., B-D Nr.000499) 1993
- Leningrad Institute of Light and Textile industry, post-graduate studies, Candidate of technical sciences Theme of theses „Analyze of driving dynamic of air-jet weaving looms P-105” 1974
- Institute of Light and Textile Production, engineer-mechanics, specialty: textile machines and equipment 1968
- Riga Technical School of Light industry, production technician of spinning technology 1955

Professional activity
- Associated professor of Apparel and textile technology department. Since 2001
- RTU Textile and Clothing technology Institute, Head of the professor group of textile technology, assoc. prof. 1998 - 2001
- RTU, assoc. prof. and head of the department of MTFM 1996 - 1998
- Member-expert of Academic Board RTU P-11 Since 1993
- Head of Scientific research laboratory of textile technology of RTU and head of the MTFM department 1987 - 1992
- Docent in RPI, MTLI and MTFM departments 1982 - 1996
- RPI MTLI, senior lecturer 1974 - 1982
- RPI Department of Machines and Technology of light industry, Assistant 1970 - 1971
  RPI Department of Mechanical Technology of fiber materials (MTFM), head of laboratorieslaboratoriju vadītājs 1966 - 1970
- Head of maintenance department, chief mechanic 1958 - 1966
In “Riga Tekstils” and it’s branches

Main themes of scientific work
- Dynamical analyse of weaving loom mechanisms;
- Research of textile machine technology;
- Analyse methods of textile material and machine instrument relationships.
Publications:

Scientific works - 45
patents - 1
Methodology works - 26

07.02.2010. G.Vinovskis
1. Name, Surname  Ilze Baltiņa, asoc. prof.
2. Work place    RTU, Institute of textile Material Technologies and Design, Department of Clothing and Textile Technologies
3. LR scientific degree, diploma No., Speciality  Doctor of Engineer Sciences, B-D 000827, Light and Textile Industry
4. Practical work  • 1989 – 1992 Engineer RTU Scientific Research Laboratory of Textile Technologies
• 2001 – 2003 Trade manager SIA “ACG NYSTROM” (Distributor company of textile facilities)
5. Teaching practice  • 2002 until present Docent, Department of Clothing and Textile Technologies
• 1998-2002 Docent, Professor group of Textile Technologies
• 1996-1998 Docent, Department of Mechanical Technology of Fibre Materials
• 1992-1996 Lecturer, Department of Mechanical Technology of Fibre Materials
• 1989-1992 Assistant, Department of Mechanical Technology of Fibre Materials
6. Themes of the Scientific Work  • Electronical Textiles
• Smart Textiles
• Glass Fibre Texturing
• Physical Properties of Fibre Materials
• Translation of all-purpose decimal classification
• Carbonization of woolen fibers in high frequency electromagnetic field
• Quality of texturized glass fibers. Conference „Modern technologies and equipment in textile industry” (Текстиль-2004), Moscow, 2004.
• Science and technological dictionary, Publisher Norden AB, 2001, pp. 754.
8. Conferences  • 2007. RTU 48th International scientific conference, papers:
  o I.Baltiņa, E.Cigle, N.Ozoliņa “Sizing of Glass Fibre Yarn”
  o I.Baltiņa, I.Šahta “Progressive Technologies in Clothing”
• 2005. International Conference Fibrous Materials XXI Exhibition, St. Petersburg, Russia
9. Teaching Aids

10. Scientific Publications
- 2004. Conference „Modern technologies and equipment in textile industry”, (Текстиль-2004), Moscow

11. Languages
- Latvian, Russian, English

12. Improvement of professional skills
- 2008. RTU professional program „30P 141 06 Development of the professional competence in the fields of pedagogy and IT”
- 2008. ILMAKUNNAS TEXTILE SYMPOSIUM
- 2007. ESF PIAA project “Competitive usage of e-study materials for academic staff”
- 2007. E-TEXT+TEXTILES seminars:
  - LENA BERGLINA (Sweden), INTERACTIVE TEXTILE STRUCTURES: HOW WILL SMART MATERIALS AFFECT OUR LIFE IN THE FUTURE?, November 1, 2007.
  - Ilze Bebris (Canada), Unwind. Febrill Spaces: heterotopias and beyond”, September 13, 2007
  - Tania Fox & Ben Maron (UK) Fabric Logic, August 20, 2007
- 2006. Course “Management of Innovations”
- 2006/2007 academic year - practical work A/S “Valmieras stikla šķiedra”
- 2005. Seminar “Climatic testing of textile materials”
- 1997. Course “Materials for Distance Education”
- 1995. De Monfort University, England

13. Professional and social work
- Member of Academic meeting of RTU
- Translation of all-purpose decimal classification (part 677)
- Member of Bachelor and Master thesis presentation commission, Member of Engineer professional qualification commission;

14. Projects
- 2008. Ministry of Science and Education and RTU research project „Design and development of the garment with integrated
microclimate control system”

- 2007. ESF project „Modernization of Study Process of Clothing and Textile Technologies”. Identification No. of the project: 2006/0249/VPD1/ESF/PIAA/06/APK/3.2.3.2/0077/00072006.

I.Baltiņa
**CURRICULUM VITAE**

Associate Professor, Dr. sc ing.

**IVARS KRIEVIŅŠ**

<table>
<thead>
<tr>
<th>Present Appointment:</th>
<th>Department of Clothing and Textile Technologies (DCTT) of Institute of Textile Materials Technologies and Design (ITMTD) of Faculty of Materials Science and Applied Chemistry (FMSAC) of Riga Technical University (RTU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position:</td>
<td>Associated professor of Apparel and textile technology department.</td>
</tr>
</tbody>
</table>
| Academic Qualifications: | • After higher education professional studies at the Leningrad Technological Institute for Textile and “Light” Industry (1969 - 1974) Designer and Technologist for Sewn Products Engineering (1112 code of the higher education professional programme);  
                       • After doctoral studies at the Moscow Technological Institute of “Light” Industry (1980 - 1984) „Candidate of Technical Sciences” in the field of „Technology of Sewn Products (05.19.04)”, later equated to the scientific degree of Doctor of Engineering Sciences (Dr.sc.ing.) by the Resolution 1993-06-16 of the RTU Promotion Council P-11 in the field of „Technology of “Light” and Textile Industry Products” soon renamed as „Textile and Clothing Engineering”. |
| Post-doctoral training | • Joint certificate of the RTU Business Institute and USA Pacific Lutheran University MBA for introduction course of „Business Administration” (1992);  
                         • Fellowship at the Department of the Clothing Design and Technology at the Berlin University of Applied Sciences (*FHTW*) (1993, 1995, 1997, 1999);  
                         • Fellowship at the Department of Clothing Design and Technology at the Manchester Metropolitan University (1993/94, 1995); |
| Previous Academic Appointments: | Department of “Light” Industry Machinery and Technology at the Riga Polytechnic Institute: (later Institute of Textile and Clothing Technology at the RTU) engineer (1974), assistant (1975), senior lecturer (since 1978); docent (assistant professor since 1990), associate professor (since 1996) |
| Professional Appointments: | Senior Researcher at the Moscow Technological Institute of “Light” Industry (1981 - 1983); Textile Consultant at the Centre of Latvian Trade and Service Inspections (1997 - 1998) |
| Major Research Interests: | Commodity science, Qualimetry and Latvian terminology standardization in the field of clothing and textile technology. Assortment studies for clothing market. Didactics of professional education in the field of clothing technology. |
| Teaching Experience: (just current subjects) | Clothing Quality Control, Research in Clothing Assortment and Quality, Anthropology for Clothing Studies, Methodology for Clothing Didactics, Fundamentals of Fashion Marketing and Apparel Commodity Science, Scientific Seminars (for clothing technology studies) etc. |
| Other academic and professional positions | ▪ Member of the RTU MZF Council (Until 2002), Member of TTDI Board  
▪ Member of the RTU TMTDI Council; Member of the RTU Promotion Council RTU-P-11 (1998-2005);  
▪ Chairman of the Textile Terminology Commission at the Latvian Academy of Sciences; (1992 until present);  
▪ Chairman of the Technical Committee for National Standardization Body LVS/STK/41 “Textiles and Leather” (1997 - 2002);  
▪ Textile Expert for Ministry of Economics; LR expert for the EU Textile Labelling Committee (2000 to present);  
▪ Membership at *The International Textile Institute* (1993 - 2002); |
CURRICULUM VITAE

Personal information:
Name, surname: SKAIDRĪTE REIHMANE

Position:
Professor of Polymer Materials Institute of Riga Technical University (RTU), Head of Department of Polymer Materials Technology

Nationality: Latvian

Address:
Polymer Material Institute of RTU, 14/24 Āzenes Str., Riga
LV 1048, Latvia
Telephone: +371 708 92 19
Fax: +371 761 57 65
E-mail: reihmane@hotmail.com

Qualification:
Since October 10th, 2003 Professor
Asoc. prof. 1998-2003
Docent 1992-1998
Dr. sc.ing., 1981 (1992)

Work experience:
Since October 9th, 2003 Professor in Material science and applied chemistry faculty of RTU
Asoc. prof. 1998 - 2003
Docent 1992-1998
Senior scientific associate 1983-1992
Scientific associate 1974 - 1983
Postgraduate student 1971 - 1974
Laboratory assistant of Riga Polytechnic institute (Faculty of Chemistry 1969 - 1971

Pedagogic work:
Lecture courses:
Textile chemistry
Textile Materials Finishing
Theory and Technology of Printing
Fiber Materials
Chemistry and Technology of Fiber Materials
Textiles material science
Conservation of Textiles
Selected sections of textile science
Basics of material science (practical work)

Superior of qualification and scientific works, study practice of RTU students, Member of State examination commission.
Scientific work:

Directions: Polymer composite materials comprising fibers
Finishing of textile materials

Publications: 115 publications and certificates of authorship, 1 patent
Works outside Latvia have been published in USA, Russia, Germany, Sweden, Poland, Bulgaria, Lithuania, and Estonia.

Membership in State funded projects:
Participation in the cross-sector project No. 06.0029 of the government of Latvia "Innovative structural integrated composite materials: design, Technologies of acquisition and processing, longevity" (2006-2009). Subproject section No. 06.0029.2.04 „Multifunctional polymer eco-composites”.

Improvement of the professional skills abroad:
Informative symposium of BEZEMA Company in Dornbirn, Switzerland, October 19-22, 2006.
University of Kassel, Germany, 2000 and 2002, delivered a lecture Mercerization – Method of Natural Vegetable Fibers Modification.
University of Southampton, Centre of Textile conservation in Winchester, UK, 1999 - TEMPUS IMG-98-LV-2006, delivered a lecture The Conservation Programs at Riga Technical University Participation with lectures in international conferences and symposiums in Germany, Sweden, Poland, Bulgaria, Lithuania and Estonia.

Professional activities:
Participation in EU Project VPD1/ESF/PIAA/04/APK/3.2.3.2/0021/0007 „Development of general nature science multimedia learning materials for engineering students of technical universities.” Section “Basics of Material science”.
Participation in international program WTZ LVA 00/003 „Innovative materials on the basis of modified wood fiber and polyolefin's” (2001-2004)
Expert of Textile Industry sub-commission of Textile Terminology Commission
Member of Textile material standardization commission work group
Member of RTU Promotion Councils P-02 and P-18
Member of Material science branch professor’s board of RTU
Requested Expert of Latvian Scientific Council: "Theoretical Principles of Chemical Technology"
Member of Council and Science Committee of Faculty of Materials Science and Applied Chemistry
Member of Latvian Materials Research Association

Language skills: Latvian (mother tongue), Russian, English
Name, last name: INESE ZIEMELE

Education:
- Basic education 1971 to 1979
  1st Secondary School, Balvi, LATVIA
- Secondary education 1979 to 1982
  16. Professional and Technical Secondary School, Riga LATVIA,
  School leaving certificate, Diploma of Tailor (highest category)
- Higher education 1982 to 1987
  Department of Machines and Technology of the Light Industry,
  Riga Technical University, LATVIA
  Diploma of an engineer in the field of Sewing Technology
  Institute of Textile and Clothing Technology,

From February 8, 1995 to January 15, 1998
Riga Technical University, LATVIA
Post Graduate course, Doctoral student

Work place, position: Riga Technical university, Textile technology and design institute, researcher
Latvia’s Republic scientific degree, Diploma No., speciality: Dr.sc.ing, diploma B-D, Nr.000963
Direction of the scientific work: Selective method of sewing machines usage obtaining a high quality thread joints in sewing production

The pedagogical work: RTU assistant from 1987 to 1998

Participation in scientific research works

1988 – 1989 scientific research work in company “Rīgas Apģērbs”
1996 -1998 scientific research work in JSC “Latvija”- „Drēnieks”

Total amount of publications: 18

Total amount of scientific works: 1

Languages: English– well;
Russian – very well;
Latvian – native

Improvement of Professional skills:
February 2008 – “Improvement of jurisdictions of the academic personnel in the pedagogic and IT area” – ESF, licensed program by RTU,
certificate PA No. 047313

Professional and public work:
- 1998 – 2007 January SIA “Solutions” senior technologist;
- October 2002 – member of experts commission realizing the accreditation of Riga Light industry technical school;
- since 2000 – member of Textile terminology subcommittee of Terminology Commission
of Latvian Science academy;
- since May 2007 - experience in ESF project
  administrative conduction
Other: B category driver licence, since July 2000

Inese Ziemele
CURRICULUM VITAE

Personal information
Name: Ugis
Family name: Briedis
Telephone: 67617355, 29408119

Education
1996-2000 Doctor course of Riga Technical University, Institute of Textile and Clothing technology
1994-1996 Master course of Riga Technical University, Institute of Textile and Clothing technology
1989-1994 Faculty of Machine Construction and Automatisation of RTU, Engineering Studies
1978-1989 Riga 47th secondary school

Qualification
1996 Master of Engineering Sciences
Master thesis: “Analysis of Feed Dog Movement Mechanism in Conventional Sewing Machines”
1994 Electro-mechanical engineer
1993 Bachelor in mechanics

Work experience
Since 2006 Riga Technical University, Institute of Textile material technologies and Design, Docent
2003-2006 Riga Technical University, Institute of Textile material technologies and Design, Lector
2001-2003 Riga Technical University, Institute of Textile and Clothing technology, Assistant
1997-2004 SIA “Sonika”, product manager
1995-1997 Riga municipality enterprise "Zemgale", electro engineer
1999 International Trendsetters – “Aggressive marketing” - certificate, lector John Von Eicken

Professional development
1988 Driving license (B, C)
Languages:
Latvian – native tongue
Russian – good
English – good
German – good
Word, Excel, Internet
PC: Badminton, music, theatre

Hobbies: Uģis Briedis
Curriculum Vitae

1. General information

Name, surname: **Gaida Petere**

Personal code: 250349-10709

Place of birth: Riga, Latvia

Place of residence: Flat 80, 24 Purvciema Str., Riga, LV 1035, Latvia

Education:


Dissertation „Homogenous differential equation solution type numbers”, presented in March 1982.

Doctoral Diploma C-D No. 000090.

09.1966 -- 05.1971 Latvian University, Faculty of Physics and Mathematics

Academic titles and scientific degrees:

Since September 1, 2007 Professor, RTU

04.2004 – 08.2007 Professor, BA School of Business and Finance

09.1999 – 04.2004 Asoc. professor, BA School of Business and Finance

Since November 10, 1992 Finance

Dr. math. C-D No 000090.

Since June 1, 1983 Candidate of Physics Mathematics Science, No. 003176.

Occupation:

09.2007 - Professor, RTU

04.2004 – 08.2007 Professor, BA School of Business and Finance

02.2004 - Actuary, BTA insurance company.

01.2004 -- Actuary, AAS “Rīgas Slimokase”.

11.1999 -- Actuary AAS „Seesam Life Latvia”.

09.1986 – 08.2007 Docent RTU.

09.1999 – 04.2004 Asoc. professor, BA School of Business and Finance

01.1999 – 09.1999 Docent, BA School of Business and Finance

05.1998 – 12.1998 Finance director, SIA "Mēdiju Aģentūra Alfa Centrs”.

01.1994 – 04.1995 Actuary, SIA „Investīciju un pensiju konsultatnts”.

06.1996 – 05.1998 PNC Head accountant, Post of Latvia.

Language skills:

Latvian, Russian, English – fluent in written and spoken language.

2. Scientific activities and Publications.

Participant or leader of Latvian Science Council (LSC) programs:
Participation in grant: LSC project No. 05 1884 “Current topics of conventional differential equation and difference equitation qualitative theory”.

Member or leader of EU and other commissions:
1. Member of the European Actuary Academy Board.
2. Member of European Consultative group (European Actuary Association Union) educational commission.
3. Member of IAA (International Actuary Association) science commission, Member of accreditation commission, consul delegate.

Member or leader of branch councils and associations:
Chairman of Latvian Actuary Association board.
Chief of Latvian Actuary Association educational commission.
Member of the board of Latvian Statistic association.
Representative of London Actuary Institute in Latvia.
LAPA member.
Member and accountant of Latvian Mathematics Association.

Major publications in appropriate science field:
Publications in international issues:

Textbooks:

Participation in international scientific conferences and congresses with lectures:

---


3. Pedagogic work

Administration of the study program:
Member of the Finance program council in BA School of Business and Finance.

Number of supervised Master thesis: 21
Master thesis of LU Mathematics student Agnese Ābolītā „Life insurance product attached to the market” gained II place in competition of Latvian Economic development forum in 2006.

Number of supervised Bachelor thesis and qualification works: 12
Student’s Aurika Doroganiča of BA School of Business and Finance Bachelor thesis „Modelling of securities portfolio with method of copula” gained I place in competition of Latvian Economic development forum in 2006.

Study subjects:

Lecturer of Socrates/Erasmus international education programmes:
Since 2004 Lecturer of Socrates/Erasmus international education programme,
Since 1994 lecturer of RTU Foreign student department.

*Further education, Professional development in Latvian or foreign universities and research institutions:*

Since May 5, 2006 leading researcher, Mathematic technology laboratory of LU Mathematics and informatics institute.

**22.09.2006** Participation in seminary 19th Colloquium organised by the Faculty of Actuaries on behalf of the Group Consultative „Risk and Capital Management in Insurance” September22, 2006, Edinburgh, UK

**29.10-2.11.2001** Participation in course „Health Seminar” and successfully passed examination.


**22.03-26.03.1999** Participation in courses „Training the Trainers” with the Faculty and Institute of Actuaries.


4. Organisational work.

*Member of Scientific magazine editorial board:*


*Member and leader of international conference organization and program comities:*

Member or international mathematician conference „ECMI 12” local organizational committee.

Chairman of international seminar „Risk management” local organizational committee, organised by European Actuary Academy in Riga, April 7-9, 2005.

*Other responsibilities in the university:*

18.05.2001 – 26.05. 2004 Member of BA School of Business and Finance Constitutional assembly.

Since 2004 Member of the European Actuary Academy Board.

Gaida Petere

Dr. math., prof
Curriculum Vitae

Personal information

Surname, name: ANITA LANKA
E-mail: Anita.Lanka@rtu.lv
Office telephone: 67089259

Language skills:

Native language: Latvian
Other languages: English, Russian

Education

Philology faculty of LVU
09/1968 06/1983
Philologist, lecturer

Scientific degrees


Improvement of professional skills

<table>
<thead>
<tr>
<th>Educational institution</th>
<th>Name of the course</th>
<th>Date: From (mm/yyyy) until (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance learning centre of RTU</td>
<td>“Development of distance learning study materials in Blackboard environment”</td>
<td>07/2004 Total 38 hours of courses</td>
</tr>
<tr>
<td>Stockholm school of economics in Riga</td>
<td>„Managing Interpersonal Relationships in Organisations”</td>
<td>29/03/2004 01/04/2004</td>
</tr>
<tr>
<td>European Peer Learning Activity Helsinki Finland</td>
<td>“Enhancing Discourse between Teachers and Work life”</td>
<td>09/10/2006 13/10/2006</td>
</tr>
<tr>
<td>Riga Business School of RTU</td>
<td>“Teaching with Electronic Resources” seminar facilitated by Michael R.</td>
<td>03/12/2006. 05/12/2006</td>
</tr>
<tr>
<td>Work experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Date:</strong> From (mm/yyyy) until (mm/yyyy)</td>
<td>06/2002 08/2008 (term of election)</td>
<td></td>
</tr>
<tr>
<td><strong>Name of the place of work</strong></td>
<td>RTU, Humanitarian Institute. Department of Pedagogy and Psychology</td>
<td></td>
</tr>
<tr>
<td><strong>Name of the post</strong></td>
<td>Associated professor</td>
<td></td>
</tr>
</tbody>
</table>
| **Main duties** | 1. Delivers lectures and prepares study materials in following subjects:  
  • Pedagogy;  
  • Didactics for higher educational establishments;  
  • Teaching methodology of technical disciplines  
  • Learning methodology  
  • Education theory of adults  
  2. Leads study programme “Vocational pedagogy”.  
  4. Supervises development of qualification projects and papers. |

| Date: From (mm/yyyy) until (mm/yyyy) | 01/2002 08/2008 |
| **Name of the place of work** | RTU, Humanitarian Institute. |
| **Name of the post** | Director |
| **Main duties** | 1. Manage, coordinate and control work of HI structural units.  
  2. Coordinate solving of scientific and methodical questions.  
  3. Representation of Institute in administrative institutions of RTU. |

<p>| Date: From (mm/yyyy) until (mm/yyyy) | 1998 06/2002 |
| <strong>Name of the place of work</strong> | RTU, Humanitarian Institute, Department of Sociology and pedagogy |
| <strong>Name of the post</strong> | Docent |
| <strong>Main duties</strong> | 1. Delivers lectures and prepares study materials in following subjects: |</p>
<table>
<thead>
<tr>
<th>Date: From (mm/yyyy)</th>
<th>until (mm/yyyy)</th>
<th>Name of the place of work</th>
<th>Name of the post</th>
<th>Main duties</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/1994</td>
<td>07/1995</td>
<td>RPIVA Department of Primary Schools</td>
<td>Docent, Head of the department</td>
<td>1. Leads, coordinates and supervises development of study course contents and implementation in the appropriate study programmes. 2. Delivers lectures and prepares study materials in following subjects:  - Teaching methodology  - Theory of education  3. Supervises qualification works in pedagogy</td>
</tr>
<tr>
<td>01/1992</td>
<td>07/1994</td>
<td>Riga 1st Christian School</td>
<td>Deputy director in educational and scientific research work</td>
<td>1. Leads, coordinates and supervises educational and scientific research work of pedagogues in the school 2. Introduces pedagogic innovations</td>
</tr>
<tr>
<td>09/1983</td>
<td>01/1992</td>
<td>Institute of Pedagogy scientific research (later – Institute of educational development)</td>
<td>Scientific associate, docent</td>
<td>1. Performs scientific research in linguistic didactic. 2. Develops curricula and learning methodology for Latvian language in primary schools. 3. Introduces pedagogic innovations, delivers lectures in qualification courses of teachers</td>
</tr>
<tr>
<td>09/1977</td>
<td>09/1983</td>
<td>Institute of Pedagogy scientific research (later – Institute of educational development)</td>
<td>Scientific associate, docent</td>
<td>1. Performs scientific research in linguistic didactic. 2. Develops curricula and learning methodology for Latvian language in primary schools. 3. Introduces pedagogic innovations, delivers lectures in qualification courses of teachers</td>
</tr>
</tbody>
</table>

- Pedagogic process
- Teaching methodology of technical disciplines
2. Supervises pedagogic practice
<table>
<thead>
<tr>
<th>Name of the place of work</th>
<th>Riga 28th Secondary School, Riga 49th Secondary School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the post</td>
<td>Teacher</td>
</tr>
<tr>
<td>Main duties</td>
<td>1. Teaches and conducts educational work</td>
</tr>
<tr>
<td></td>
<td>2. Teaches following subjects:</td>
</tr>
<tr>
<td></td>
<td>• Latvian language and literature</td>
</tr>
<tr>
<td></td>
<td>• Physical education</td>
</tr>
</tbody>
</table>

**Scientific work and participation in main academic projects**


2. 2008–2009. **Researcher** in Project of RTU „Realisation of adaptive reflexive bonds in intellectual knowledge evaluation system based on concept nets”.

3. 2006-2007. **Researcher** in the Project „Defining of the profession in vocational education” of European Educational and culture commission program, part I: „Teachers and lecturers working in initial vocational education system and environment”.

4. 2006-2007. **Researcher** in the Project „Defining of the profession in vocational education” of European Educational and culture commission program, part II: „Teachers and lecturers working in further vocational education system and environment”.

5. 2006-2007. **Leader and expert of contents in didactics** in the project “Development of pedagogical and IT competencies of the academic personnel” of the European Structure Fund.

6. 2006-2007. **Researcher** in the inter-faculty Project of RTU „Concept web and ontology based intellectual system for self-evaluation of students’ knowledge and evaluation of knowledge orientated on processes”.

7. 2005-2006. **Researcher** in the inter-faculty project „Intellectual system for improvement of study efficiency”.

8. 2001-2002. **Researcher** in European Educational Council research project „Comparative Analyses of Vocational Education and Training Reform and the Role of Teacher Training”.

**Publications**

**Publications in scientific issues**


6. Lanka A. and other authors, Evaluation and self-evaluation of knowledge in process oriented studies, using intellectual system that is based on concept nets. University intermediary


Learning and methodological aids


2. Lanka A. Metodiskie ieteikumi./ Pirmā līmeņa augstākās profesionālās izglītības studiju programma „Arodpedagoģija”. (Methodological suggestions for first level higher professional education program "Vocational pedagogy"). Rīga, RTU, 2004. (pp. 21).

3. Lanka A., Mūrieks E. Metodiskie ieteikumi./ Viengadīgās arodskološu pamata pedagoģiskās izglītības programmas dalībniekiem. (Methodological suggestions for the members of one year vocational teacher basic education program.) Rīga, RTU, 2004. (pp. 15).


Participation in scientific conferences
Pedagogic work
Length of pedagogic service in higher education establishment – 14 years.

Lecture courses
In University of Latvia: „General pedagogy”, „Theory of education”; „A. Adler’s psychological verities in pedagogy”.
In Riga Technical University: „Pedagogic process”, „Learning methodology”; „Theory of education”, „History of pedagogic idea”, „Didactics for higher educational establishments”.

Development and management of study program
1st level professional study program „Vocational pedagogy” has been developed.

Organisational work
- Work in Study quality and program commissions of RTU Senate
- Work in editorial board of RTU scientific paper series „Humanitarian and social sciences”.


Pedagogic work
Length of pedagogic service in higher education establishment – 14 years.

Lecture courses
In University of Latvia: „General pedagogy”, „Theory of education”; „A. Adler’s psychological verities in pedagogy”.
In Riga Technical University: „Pedagogic process”, „Learning methodology”; „Theory of education”, „History of pedagogic idea”, „Didactics for higher educational establishments”.

Development and management of study program
1st level professional study program „Vocational pedagogy” has been developed.

Organisational work
- Work in Study quality and program commissions of RTU Senate
- Work in editorial board of RTU scientific paper series „Humanitarian and social sciences”.

53
• Work in editorial board of RTK scientific papers.
• Participation in development of profession standards for vocational education teachers.
• Lector, consultant and co-author of books for LVAVP (State program for acquisition of Latvian language).
• Collaboration with Further education department of Ministry of Education and Science, by delivering lectures in courses for teachers, head-masters and methodologists.
• Coordinator of TTnet in Latvia.
• Expert of intermediate evaluation of National program project “Development of unified methodology for raising the quality of professional education and involvement of social partners”.

Anita Lanka.
Curriculum Vitae

Personal information
Surname, name: Airisa Šteinberga
E-mail: airisasteinberga@inbox.lv
Office telephone: 67089152

Language skills:
Native language: Latvian
Other languages: Russian, German

Education
1994. Graduated Master studies in University of Latvia and gained Master degree in Pedagogy.

1990. Graduated Biology faculty in University of Latvia and gained qualification of biologist, biology and chemistry teacher.

Scientific degrees
1997. Gained Psychology Doctor Degree (Dr. psych.).

Improvement of professional skills


Work experience


1994 – 1998 RTU, Lector
1990-1999 Riga Commercial School, Teacher

Scientific work and participation in main academic projects

1990 – 2005 Participant in the international project “Internationales lernen”
01.07.2006.- 30.06.2007. Participation in the development and realisation of ESF project “Development of pedagogical and IT competencies of the academic personnel”.

Publications

Publications in scientific issues


Штейнберга А. А Использовании психологического тренинга с подростками в воспитании в Латвии Сборник материалов научно-практической конференции В.М.Бехтерев и современная психология. 28сентября – 1октября 2005года.


Learning and methodological aids:


Participation in scientific conferences

48th International scientific conference of RTU, October 12, 2007. Report: „Pupils' attitude towards school as quality criteria of education”.


Pedagogic work

Length of pedagogic service in higher education establishment – 14 years.

Lecture courses

Vispārīgā un personības psiholoģija. (General and personality psychology).
Attīstības psiholoģija (Developmental psychology)
Pedagoģiskā psiholoģija (Pedagogic psychology)
Ģimenes psiholoģija (Family psychology)

Lectures in foreign universities


Organisational work

Member of scientific paper editorial board of RTU.
Curriculum Vitae

Personal information
Surname, name: Sandra Gudzuka
E-mail: sandra@bf.rtu.lv
Office telephone: 67089128

Language skills:
Native language: Latvian
Other languages: English, Russian

Education
1996 Pedagogy and psychology faculty of LU
   Master degree in Psychology
1984 Psychology faculty of Leningrad State University
   Psychology teacher Diploma

Scientific degrees

Improvement of professional skills
2007 Doctoral student of Pedagogy and psychology faculty of LU

Work experience
Trainee Docent in Pedagogy and psychology department of RTU Humanitarian Institute.

Scientific work and participation in main academic projects
Student attitude towards highest military career. Empiric research of RTU sociologist group. 2004/2005

Publications
Publications in scientific issues
Scientific Journal of Riga Technical University: Humanitarian and social sciences:
   Psychological aspects of personal selection and assessment. 2002
   Employee motivation and satisfaction with work in Latvian enterprise. 2003
   Student attitude towards highest military career. 2004
Learning and methodological aids
Acceptance of group decisions. Methodological paper collection: Industrial relationships. RTU, 2004

Participation in scientific conferences
Annual scientific conferences of RTU. 2007. Theme of the report: “Satisfaction with study environment of RTU students”.

Pedagogic work
Length of pedagogic service in higher education establishment – since 1994 in RTU.

Lecture courses
Saskarsmes pamati (Communication fundamentals) – 2 CP
Sociālā psiholoģija (Social psychology) – 2 KP
Saskarsmes psiholoģija (Communication psychology) – 2 KP
Organizāciju psiholoģija (Psychology of organizations)

Organisational work

Other information
Member of Latvia’s Professional Psychology Association.
The maintenance of subjects
Faculty of Computer Science and Information Technology
Chair of Engineering Mathematics

Responsible instructor
Prof. Gaida Petere

Course title
Lietiškā matemātika
Applied Mathematics

Status
Compulsory Subject

Level
Professional Master Degree

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<td>Exam</td>
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Annotation:


Recommended literature:


Facilities:
Lecture room
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor  Prof. Ausma Viļumsone

Course title  Izstrādājumu datorizētās projektēšanas metodes
The Methods of Computer Aided Designing of Product

Status  Compulsory Subject
Level  Professional Master Degree

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</table>

Annotation:

The comparison of CAD methods. Formalization of design tasks. The facilities of data organization. The methods of graphic designing. The import and export of graphical files.

Recommended literature:


Facilities:
TTDI study laboratories
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor: Docent Nadežda Ozoliņa

Course title: Zinātniski pētniecisko darbu metodoloģija  
Methodology of Research

Status: Compulsory Subject  
Level: Professional Master Degree

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Annotation:

The basic principles and research methods used in textile and sewing processes in investigation, linear regression analysis and non-linear estimation. Factor analysis, experimental design, discriminate and cluster analysis and other statistical methods, used in textile science

Recommended literature:

1. Improvement of the apparel collection design process / I.K. et al.// Textile Technology Digest.- 05406/88;
2. Šūto izstrādājumu ilgtermiņa sortimentālās koncepcijas: ZPD / A.Deniņš, I.Krieviņš, J.Zvanītājs.- R., 1989 (kr.val);
3. Latvijas apģēru tirgus izpēte.- R.,RTU,1996;
4. Fashion marketing / Ed. by M.Easey.- Oxford etc., 1995 (kopējams);
5. Diamond E. Fashion retailing.- NY, 1993 (kopējams);
6. Handbuch Mode-Marketing.- Fr./M., 1991 (LNB);

Facilities:  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor: Asoc.prof. Genrihs Vinovskis

Course title: Tekstilnozaru attīstības stratēģija  
The Strategy of Development of Textile Industry

Status: Compulsory Subject
Level: Professional Master Degree

<table>
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</table>

Annotation:

The affiliation of textile branch in Latvia's national economy, the request of work places, qualification of employees and investments in branches. Analyses of textile fabrics competitiveness, added value and export demand by product categories according with EU accepted goods classification. Existing and perspective article technological environment with advanced technologies.

Recommended literature:

3. Fashion Technics. Das Internationale Magazin fuer die Modeindustrie;
4. Tekstilnaja promišlennost;
5. Izvestija Vuzov

Facilities:
TTDI lecture rooms
Course title: Progressive Textile Materials

Status: Compulsory Subject

Level: Professional Master Degree

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Annotation:


Recommended literature:


Facilities:
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology  

Responsible instructor  
As. prof. Ivars Krieviņš  

Course title  
Specializētie pētnieciskā darba semināri  
Specialization Research Seminars  

Status  
Compulsory Subject  

Level  
Professional Master Degree  

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Annotation:  

Review of scientific articles, student papers, research problems in the field of clothing technology, discussions thereby. Students' or visiting lecturers' paper presentations to stimulate discussions. Methods of information search, retrieval, analysis; methods of particular theoretical and empirical investigations; methods of validity / reliability estimation, that of research outcomes presentation.  

Recommended literature:  

3. Osnovi naučnih issledovanij.-M., 1989.;  

Facilities:
TTDI lecture rooms

Institute of Polymer Materials
Chair of Polymer Materials Technology

Responsible instructor  Prof. Skaidrite Reihmane

Course title  Tekstilķīmija
Textile Chemistry

Status  Compulsory Subject
Level  Professional Master Degree

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</table>

Annotation:

Textile materials as high molecular compounds. Structure, properties and application of natural and man-made fibres. Introductory level of textile finishing (preparation, dyeing, printing, finishing).

Recommended literature:

1. S. Reihmane Lekciju konspekts Šķiedrmateriāli , Rīga , RTU, 105 lpp.(2005)
2. S. Reihmane Lekciju konspekts Tekstilķīmija , Rīga , RTU, 103 lpp.(1998)

Facilities:

Institute's Lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology  

Responsible instructor  
As.prof. Genrihs Vinovskis  

Course title  
Apģērbu un tekstiliju tehnoloģiju pamatojums  
The Substantiation of Technologies of Clothing and Textile  

Status Compulsory Subject  
Level Professional Master Degree  

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Annotation:  

Recommended literature:  

Facilities:  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor: **Prof. Ausma Viļumsone**

Course title: Tekstiliju datorizētā projektišana  
The Computer Aided Designing of Textile

Status: Elective Subject  
Level: Professional Master Degree

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**Annotation:**

The review and facilities of application of special Textile CAD-Systems. Textile CAD-Systems. The structure and system tools of software package TexDesign. Drawing and editing, the systems of colors - editing and playdown, designing and application of actual color scheme, designing of fabrics and knitting. The principles of ornament designing. The definition of technical data and data acquisition for product elaboration.

**Recommended literature:**

1. **Koppermann. TexDesign. Benutzerhandbuch Version 5.03.**  
2. **Stephen Gray. CAD/CAM in clothing and textiles / Abingdon : Gower, 1998.**

**Facilities:**  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor  
Prof. Ausma Vilumsone

Course title  
Adīšanas tehnoloģijas attīstības tendences  
Trends in Knitting Technologies

Status  
Elective Subject

Level  
Professional Master Degree

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Annotation:

In technology of knitting applied mechanisms of figure, selection of needles, submissions of a string and tap of a cloth by one and two-system round knitting and flat knitting machines. Expansion of their design and technological opportunities. Automation of management. Opportunities of reception of new kinds of single-layered and two-layer interlacings, their properties and feature of designing.

Recommended literature:

4. Fashion Technics. Das Internationale Magazin fuer die Modeindustrie;
5. Tekstilnaja promišļenostj;
6. Izvestija Vuzov

Facilities:  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor  
As. prof. Genrihs Vinovskis

Course title  
Aušanas tehnoloģijas attīstības tendences  
Development Tendencies of Weaving Technology

Status  
Elective Subject

Level  
Professional Master Degree

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Annotation:


Recommended literature:

4. Tekstiļnaja promišļenostj;
5. Izvestija Vuzov

Facilities:  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor  Docent Nadežda Ozoliņa

Course title  Tekstiltehnoloģijas teorija
Theories of Textile Technology

Status  Elective Subject
Level  Professional Master Degree

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Annotation:


Recommended literature:

4. Fashion Technics. Das Internationale Magazin fuer die Modeindustrie;
5. Tekstilnaja promišlennostj;
6. Izvestija Vuzov
7. Textile World;
8. Machen Industrie BRD;
10. B.P.Saville "Physical testing of textiles", The Textile Institute,
Facilities:
**TTDI lecture rooms**

Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

**Responsible instructor**  
As.prof. Ilze Baltiņa

**Course title**  
Žakardaušanas tehnoloģija  
Jacquard Weaving Technology

**Status**  
Elective Subject

**Level**  
Professional Master Degree

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**Annotation:**


**Recommended literature:**


Facilities:
**TTDI lecture rooms**
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor  Docent, Dr.sc.ing. Inese Ziemele

Course title  Apģērbu logistika
             Clothing Logistic

Status  Elective Subject
Level  Professional Master Degree

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Annotation:


Recommended literature:

Facilities:

TTDI lecture rooms

Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor Docent, Dr.sc.ing. Inese Ziemele

Course title Apģērbu tehnoloģiju pārvaldība
Management of Clothing Technologies

Status Elective Subject
Level Professional Master Degree

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Annotation:


Recommended literature:


Facilities:
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor: **As.prof. Ivars Krieviņš**

Course title: Apģērbziniibu mācīšanas metodika
**Methodology for Clothing Technology Teaching**

Status: Elective Subject
Level: Professional Master Degree

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Annotation:

Curricula and methodology of teaching or instruction (didactics) for various occupational levels, sectors, subjects or modules in textiles and clothing. ISCED-97 jobs within textile business, ISCO-88 (LR PK) definitions. Educational researches for textile and clothing didactics and curriculum development.

Recommended literature:


Facilities:
**TTDI lecture rooms**
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor: Prof. Ausma Vilumsone

Course title: The Method of Photo Measurements for Garment Designing

Status: Elective Subject
Level: Professional Master Degree

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Annotation:


Recommended literature:

2. Instruction for body shape photo-measurements program/ Saint-Petersburg, 2006- 12 pp.

Facilities:

TTDI lecture rooms
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor: As.prof. Ivars Krieviņš

Course title: Apģērbu kvalitātes izpēte
Research in Fashion Quality

Status: Elective Subject
Level: Professional Master Degree

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Annotation:


Recommended literature:

3. Osnovi naučnih issledovanij.-M., 1989.;

Facilities:
TTDI lecture rooms
Innovations in Textiles

Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor: Prof. Ausma Viļumsone

Course title: Innovācijas tekstilnozarē
Innovations in Textiles

Status: Elective Subject
Level: Professional Master Degree

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Annotation:

The description of textile production and perspective of evolution in Latvia and world. The fields of application of technical textiles. The ensuring of specific qualities of textiles. Application of forms in nature to the modelling textiles with special properties. Designing of clothing with properties to ensure special needs in extreme conditions. Integration of electronics in textiles. Achievements of Latvian scientists in textile branch.

Recommended literature:

1. Carolyn Yeates "Are Smart Materials Intelligent?" INSPEC Matters issue no.77 - March 1994
3. Maišis Mākinen "Smart Textile Materials" SmartWearlab Tampere University of Technology
5. Chris Lefteri "Materials for Inspirational Design"; Published and distributed by RotoVision SA; 2006; pp.256
6. AiF-Nr. 12541
   http://www.hohenstein.de/ximages/21642_fbbtsmartc.pdf
10. Textile network. Journal every month. / Meisenbach Verlag GmbH.

Facilities:
TTDI lecture rooms

Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor
Docent Inese Ziemele

Course title
Mākslinieciski tehniskā jaunrade
Design Creativity

Status
Elective Subject

Level
Professional Master Degree

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</table>

Annotation:

Creativity in engineering sciences and in art. Methods to develop a technical creativity - inventions and patents. Patents in fashion design.

Recommended literature:

3. Atelje Rundschau (Mēnešraksts) / Krievija, SAS Rundschau Verlag Otto G.Koeniger GmbH&Co
7. Tehnologija šveinogo proizvodstva/ Peršina L.F., Petrova, S.V. M, 19991
8. Tehnologija izgotovlenija šveinih izdelij po individual'rnim zakazam/ Reut T.N.i dr. Moskva, 1989

Facilities:
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology  

Responsive instructor: As.prof. Ivars Krieviņš  

Course title: Modes tirginības  
Fashion Marketing  

Status: Elective Subject  
Level: Professional Master Degree  

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Annotation:  

Recommended literature:  
1. Improvement of the apparel collection design process / I.K. et al./ Textile Technology Digest.- 05406/88;  
3. Fashion marketing / Ed. by M.Easey.- Oxford etc., 1995 (kopējams);  
4. Diamond E. Fashion retailing.- NY, 1993 (kopējams);  
5. Handbuch Mode-Marketing.- Fr./M., 1991 (LNB);  

Facilities:  
TTDI lecture rooms
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor: Docent, Dr.sc.ing. Inese Ziemele

Course title: Darba metožu pētniecība
Work Method Research

Status: Elective Subject
Level: Professional Master Degree

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</table>

Annotation:


Recommended literature:

2. Ministerstvo promišlennosti, nauki i technologii Rosijskoj federacii, "Instrukcija po rasčotu proizvodstvennih moščnosti predprijatij šveinoi promišlennosti (krupnih, srednih i malogo biznesa) v uslovijah rinočni ekonomiki", Moskva, 2003
6. OAO "CNIISP". Rekomendacii po restrukturizacii sistemi upravlenija šveinim predpriatiem v sovremennih usloviah. - Moskva, 2000

Facilities:
TTDI lecture rooms

Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor  
Docents Uģis Briedis

Course title  
Šūšanas fabriku un modes darbnīcu projektēšana  
Design of Sewing Factories and Fashion Workshops

Status  
Elective Subject

Level  
Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
<th>CP</th>
<th>Lectures</th>
<th>Practical</th>
<th>Lab.</th>
<th>Tests</th>
</tr>
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<tbody>
<tr>
<td>Two Parts</td>
<td>6</td>
<td>4</td>
<td>-</td>
<td>2</td>
<td>E, W</td>
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<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>Exam</td>
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<tr>
<td>2. Part</td>
<td>4</td>
<td>2</td>
<td>-</td>
<td>2</td>
<td>Work</td>
</tr>
</tbody>
</table>

Annotation:

The design steps, principles and methods of the departments of sewing factories and fashion workshops. Production logistics. The infrastructure and the calculations of power supply for sewing factories and fashion workshops. The project development of the departments for sewing factories and fashion workshops. The design of garments shops. The technical and economical calculations and efficiency of the project.

Recommended literature:


Facilities:
TTDI lecture rooms
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor: Docent Inese Ziemele

Course title: Apģērbu individuālo pasūtījumu tehnoloģija  
Techniques for Bespoke Garment Fabrication

Status: Elective Subject  
Level: Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
<th>CP</th>
<th>Lectures</th>
<th>Practical</th>
<th>Lab.</th>
<th>Tests</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>Test</td>
</tr>
</tbody>
</table>

Annotation:

Apparel style and choice of materials. Calculation of material amount, cutting. Fitting and making of apparel, individualities of processing. The time rating of tailor-made production.

Recommended literature:

3. Atelje Rundschau (Mēnešraksts) / Krievija, SAS Rundschau Verlag Otto G.Koeniger GmbH&Co
7. Tehnologija šveinogo proizvodstva/ Peršina L.F., Petrova, S.V. M, 19991
8. Tehnologija izgotovljenija šveinih izdelij po individual'nim zakazam/ Reut T.N.i dr. Moskva, 1989
Facilities:
TTDI lecture rooms

Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor
As.prof. Genrihs Vinovskis

Course title
Nozares uzņēmumu projektēšana
Branch Enterprises Design

Status
Elective Subject

Level
Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
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<th>Lectures</th>
<th>Practical</th>
<th>Lab.</th>
<th>Tests</th>
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</thead>
<tbody>
<tr>
<td>Indivisible</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>Work</td>
</tr>
</tbody>
</table>

Annotation:

The technical and economical justification of textile enterprise. Assortment and its technical calculations. The technological plan of production. The choice of technological parameters and equipment. The calculation of efficiency equipment and its placement in a production department.

Recommended literature:


Facilities:
TTDI lecture rooms
Institute of Technology and Design of Textile Materials
Chair of Clothing and Textile Technology

Responsible instructor  Doc. Nadežda Ozoliņa

Course title  Tehnisko tekstīliju ražošana
Production of Technical Textiles

Status  Elective Subject
Level  Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
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<th>Lectures</th>
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<th>Lab.</th>
<th>Tests</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4</td>
<td>3</td>
<td>-</td>
<td>1</td>
<td>Exam</td>
</tr>
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</table>

Annotation:


Recommended literature:


Facilities:
TTDI lecture rooms

Institute of Humanities
Chair of Pedagogy and Psychology

Responsible instructor
As.prof. Anita Lanka

Course title
Inženierzinātņu priekšmeta mācīšanas metodika
Teaching methodology of Engineering subject

Status
Elective Subject

Level
Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
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<th>Lab.</th>
<th>Tests</th>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>Test</td>
</tr>
</tbody>
</table>

Annotation:

Drafting of the curriculum. Individual assignments. Making out individual assignments. Drawing up the syllabus. Specific teaching methodology. Forms of teaching procedure. Didactic models of classes. Specific teaching aids. Laboratory work, practical work.

Recommended literature:


Facilities/technical aids:
Audiovisual materials
Institute of Humanities
Chair of Pedagogy and Psychology

Responsible instructor
As.prof. Anita Lanka

Course title
Pedagoģija
Pedagogy

Status
Elective Subject

Level
Professional Master Degree

<table>
<thead>
<tr>
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<th>Lab.</th>
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</tr>
</thead>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>Test</td>
</tr>
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</table>

Annotation:


Recommended literature:

1. Zelmenis V. Pedagoģijas pamati. R,m RaKa, 2000

Facilities/technical aids:
Audiovisual materials
Institute of Humanities
Chair of Pedagogy and Psychology

Responsible instructor

Docent Airisa Šteinberga

Course title
Psiholoģija
Psychology

Status
Elective Subject

Level
Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
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<th>Lab.</th>
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<td>1</td>
<td>1</td>
<td>-</td>
<td>Test</td>
</tr>
</tbody>
</table>

Annotation:


Recommended literature:


Facilities/technical aids:

Audiovisual materials
Institute of Humanities
Chair of Pedagogy and Psychology

Responsible instructor Docent Sandra Gudzuka

Course title Saskarsmes psiholoģija
Communication Psychology

Status Elective Subject
Level Professional Master Degree

<table>
<thead>
<tr>
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<th>Practical</th>
<th>Lab.</th>
<th>Tests</th>
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<tbody>
<tr>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>Test</td>
</tr>
</tbody>
</table>

Annotation:


Recommended literature:


Facilities/technical aids:
Audiovisual materials
Institute of Technology and Design of Textile Materials  
Chair of Clothing and Textile Technology

Responsible instructor  
As. prof. Ivars Krieviņš

Course title  
Apģērbu sortimenta attīstības tendences  
Trends Towards Clothing Range Development

Status  
Elective Subject

Level  
Professional Master Degree

<table>
<thead>
<tr>
<th>Part</th>
<th>CP</th>
<th>Lectures</th>
<th>Practical</th>
<th>Lab.</th>
<th>Tests</th>
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<tbody>
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<td>4</td>
<td>2</td>
<td>-</td>
<td>2</td>
<td>Exam</td>
</tr>
</tbody>
</table>

Annotation:

Methods for clothing consumer behaviour research. Segmentation of clothing market. Diversification of garment range. Merchandising research: acquiring data, sampling, measurement, scaling, questionnaires and data analysis.

Recommended literature:


Facilities:

TTDI lecture rooms
Accreditation paper
RĪGAS TEHNISKĀJAI UNIVERSITĀTEI

ir tiesības isticot akreditēto
maģistra
studiju programmu
"Tekstila un apģērbu tehnoloģija" (4554201)

un piešķirt
inženierzinātnu maģistra akadēmisko grādu
tekstila tehnoloģijā vai
inženierzinātnu maģistra akadēmisko grādu
apģērbu tehnoloģijā.

Pamatojums: Akreditācijas komisijas
Maģistra studiju programma
"Tekstila un apģērbu tehnoloģija"
ir akreditēta līdz 2010.gada 31. decembrim.

Ministrs J. Radzevičs
RIGA TECHNICAL UNIVERSITY

DIPLOMA SUPPLEMENT
Diploma series PD E Nr.1944, registration Nr. 147-003

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the Supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, certificates etc.).

It is designed to provide a description of the nature, level, context and status of the studies that were pursued and successfully completed by the individual named in the Diploma to which this Supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, the reason should be explained.

1. Information identifying the holder of the qualification
   1.1. family name: SPULGĪTE
   1.2. given name: Maija
   1.3. date of birth (day/month/year):
   1.4. identification number:

2. Information identifying the qualification
   2.1. name of the qualification (in original language): 
   profesionālais maģistra grāds apģērbu un tekstila tehnoloģijā
   Professional Master Degree in Clothing and Textile Technology
   2.2. main field(s) of study for the qualification: 
   Clothing and Textile Technology
   2.3. name (in the original language) and status of the awarding institution: 
   Rīgas Tehniskā universitāte, state-founded university,
   state-accredited since July 12, 2001
   2.4. name (in the original language) and status of the institution administering the studies: 
   the same as in point 2.3.
   2.5. language(s) of instruction/examination: 
   Latvian

3. Information on the level of the qualification
   3.1. level of the qualification: 
   the second professional degree
   3.2. official length of the programme, start and end date (of the acquisition) of the programme: 
   1,5 years of full-time studies, 60 Latvian credit points, 90 ECTS credits.
   The programme was acquired 01.09.2008 - 28.01.2010
   3.3. access requirements: 
   Professional "bakalauris" degree of Clothing and Textile Technology or equal second level higher professional education

4. Information on the contents and results gained
   4.1. mode of study: 
   full-time studies
4.2. programme requirements:

Full study workload in the programme is 60 credit points of which compulsory core subjects block constitutes 14 credit points, elective part 20 credit points, practical placement outside the University 6 credit points, Master thesis 20 credit points. The contents of compulsory and elective part comprises studies of novelities in theory and practical applications of the main field of studies - 14 credit points, courses that ensure mastering of the newest achievements in theory and practice, courses on research, design and management 10 credit points, pedagogy and psychology - 2 credit points.

4.3. programme details and the individual grades/marks/credits obtained:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit points</th>
<th></th>
<th>Marks</th>
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<td>ECTS</td>
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<tr>
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<tr>
<td>Applied Mathematics</td>
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<td>6</td>
<td>9</td>
</tr>
<tr>
<td>The Methods of Computer Aided Designing of Product</td>
<td>2</td>
<td>3</td>
<td>passed</td>
</tr>
<tr>
<td>Methodology of Research</td>
<td>2</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>The Strategy of Development of Textile Industry</td>
<td>2</td>
<td>3</td>
<td>passed</td>
</tr>
<tr>
<td>Specialization Research Seminars</td>
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<td>3</td>
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</tr>
<tr>
<td>B section (electives)</td>
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<tr>
<td>Management of Clothing Technologies</td>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Work Method Research</td>
<td>4</td>
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<td>8</td>
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<tr>
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<td>6</td>
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<tr>
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<tr>
<td>Fashion Marketing</td>
<td>4</td>
<td>6</td>
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<tr>
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<td>2</td>
<td>3</td>
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</tr>
<tr>
<td>Practical Placement</td>
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<td></td>
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<tr>
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<td>E-learning for Industrial Cutting of Apparel</td>
<td>20</td>
<td>30</td>
<td>10</td>
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</tbody>
</table>

Weighted average mark: 9.42

4.4. grading scheme:

grade scale 10 - 1; 10 - the highest grade, 4 - the lowest successful grade
notation: 10 - with distinction, 6 - almost good,
         9 - excellent, 5 - satisfactory,
         8 - very good, 4 - almost satisfactory,
         7 - good, 3-1 - unsatisfactory

4.5. overall classification of the qualification (in the original language):

none

5. Information on the function of the qualification

5.1. access to further study:
   access to doctoral studies

5.2. professional status:
   provides access to start research, pedagogical and professional activities in clothing and textile technology branch

6. Additional information

6.1. additional information:
   professional "maîtres" study programme "Clothing and Textile Technology" was accredited by the state on June 04, 2008 till December 31, 2010.
6.2. further information sources:

Studiju daļa
Rīgas Tehniskā universitāte
Kalķu iela 1, Rīga LV - 1658, LATVIA
phone +371 67089423, fax +371 67089305
www.rtu.lv, e-mail: rtu@rtu.lv

Akadēmiskās informācijas centrs
Vaļņu iela 2, Rīga, LV-1050, LATVIA
phone +371 67225155, fax +371 67221006
e-mail: diplomi@aic.lv

7. Certification of the supplement
7.1. date: January 28, 2010
7.2. signature: U. Sukovskis
7.3. capacity: Vice Rector for Studies
7.4. official stamp:

8. Information on the national higher education system
see Appendix