RĪGAS TEHNISKĀ
UNIVERSITĀTE

Report
on inclusion of the professional master study programme
"Logistics and Supply Chain Security"
in the accreditation sheet of a study field "Transport Services"

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1. Information about the study field

1.1. Aims and objectives of the study field

Within the framework of the study field "Transport Services" (hereinafter - the Study Field), has been set **an objective** to provide students with sustainable multi-stage education in the field of transport services, promoting competitive and welfare-promoting career development and preparing internationally recognized, highly qualified specialists in various fields related to the transport services sector.

The sub-objectives of the Study field are to create, maintain and develop multi-stage, sustainable research and industry-based education:

- ensuring continuity of studies at all (four) levels of study corresponding to the field of activity of the Faculty of Engineering Economics and Management (hereinafter - the FEEM);
- promoting and implementing internationalisation activities, ensuring that 10% of students and 5% of academic staff is from abroad;
- ensuring the representation of the FEEM in the professional organizations corresponding to the Study Field;

An important **task** of the Study field is to prepare internationally recognized, highly qualified specialists in various fields of the transport services sector, thus the general tasks of the Study field are formulated as follows:

- to develop students' analytically critical thinking and to promote interest in the processes taking place in society by analysing the economic situation of the country and the development trends of the Transport and Logistics sector, analysing and evaluating the situation in enterprises and the national economy as a whole;
- to acquire knowledge and improve professional skills and abilities in their chosen study programme, showing appropriate achievements and study results in each study course and integrating them into research;
- to promote the acquisition of research work skills by developing study papers within the framework of various study courses and final study papers;
- to develop skills in identifying problems, formulating goals and solving them, offering practical solutions to individual problems within the framework of study courses and final study works;
- as a result of the study process, to develop students' intelligence, to promote their improvement, to promote the use of intellectual abilities in the study process and further in their practical activities.

In turn, the objectives of the study programmes in the Study field are subordinated to the objective of the study field, forming a unified system as a whole, at the same time reflecting the specifics of each study programme.

Objectives are set for the Study field and its study programmes, which arise from the strategic objectives of RTU: high-quality study process, excellent research, sustainable innovation. RTU's strategy is based on 3 main goals of the university and permeates the 5 most important priorities of the university – internationalization, interdisciplinarity, organizational, financial, as well as infrastructure efficiency. RTU uses these 5 horizontal priorities as a prism to review the implementation of its objectives and to provide the Latvian economy and society with internationally competitive high-quality scientific research,

higher education, technology transfer, commercialization and innovation. RTU's strategic direction is to be an international and leading Baltic higher education institution of technology. Thus, the objective of the Study field fits into the unified development strategy of the university and corresponds to the overall trends in the development of society and the national economy. By implementing the study programmes of the Study field, students' understanding of economic and social issues in sustainable economic development, as well as their skills in identifying problems and solving them are developed.

1.2. Study programmes of the study field

1. Professional master (second cycle professional higher education) study programme "Logistics and Supply Chain Security" (47840), to be included in the study field.
2. First level (short cycle) professional higher education study programme "Logistics" (41840) (is planned to be included in the study field in 2024).
3. Professional bachelor (first cycle professional higher education) study programme "Port and Shipping Management" (42840) (included in the study field until 2023, when the Maritime Academy of Latvia was added to the Riga Technical University, a decision was made to close the programme and in 2023, no new student admission took place).

1.3. Analysis of the compliance of the study programme to be included in the study field's accreditation page with the study field

The professional master (second cycle professional higher education) study programme "Logistics and Supply Chain Security" (hereinafter – the Study programme) is designed as a modern and open to cooperation interdisciplinary Study programme, which will be able to flexibly respond to market trends and the requirements for the improvement of the qualification of supply chain management professionals, using the structure and advantages of RTU.

The Sustainable Development Strategy of Latvia until 2030 and the strategic objectives set out there in stipulate that the development of Latvia in the future should be based on the foundations of sustainable development, therefore, specialists with interdisciplinary knowledge in the field of supply chain management will be needed in the future.

Currently, in Latvia, as in all countries of the world, are given special attention to logistics and supply chain processes, because in the conditions of global trade, the volumes of goods supply are increasing.

Based on the statement of the European Union (hereinafter - EU) commission Europe 2020 "Strategy for smart, sustainable and integrative growth", where objectives for the improvement of the education system and research work are mentioned, it can be concluded that Europe is interested to participate in the development of higher education and research work. The main initiatives put forward in the document:

- "Innovation Union", which aims to improve the conditions for and access to research and innovation funding to ensure that innovative ideas can

be turned into products and services that create growth and employment.

- "Youth on the Move" aims to increase the performance of education systems and make it easier for young people to enter the labour market.

The Sustainable Development Strategy of Latvia focuses on the development of the basis of sustainability, ensuring the possibility of obtaining higher vocational education throughout life, which will promote the competitiveness and economic growth of Latvia.

Currently, it is observed in the Republic of Latvia is a demand from employers for the profession "Supply Chain Manager", but formal education in this field cannot be obtained in Latvia. Taking into account the priorities in the field of logistics in the near future, the shortage of such specialists will only increase, therefore, in order to provide the national economy with qualified specialists, the Study programme is aimed for their preparation in Latvia.

The Study programme works closely with representatives of the transport and logistics industry, as well as representatives of other industries for which supply chain security is essential for ensuring economic activity. The Study programme also prepares specialists for a wide range of organisations involved in the national economy (t.sk, e.g. institutions subordinate to the Ministry of Defence, etc.) in response to changes in the demands of various sectors. Regular contacts are maintained with employers in the transport and logistics sector and related companies. If the recommendations of employers in the improvement of the Study programme are not in contradiction with the regulatory documents, their recommendations are taken into account.

2. Description of the study programme

2.1. Parameters describing the study programme

2.1.1. Parameters of the study programme

1.	Name of the study programme	Loģistika un piegādes ķēdes drošība	
2.	Name of the study programme in English	Logistics and Supply Chain Security	
3.	Code of the study programme in accordance with the Latvian Education Classification	47840	
4.	Type and level of the study programme	Professional master (second cycle professional higher education) study programme	
5.	Level of qualification to be acquired (NQF/EQF)	7	
6.	Amount of the study programme (CP, preferably also ECTS)	1. implementation variant - 40 CP (60 ECTS) 2. implementation variant - 60 CP (90 ECTS) 3. implementation variant - 80 CP (120 ECTS)	
7.	Form, type, and duration of the study programme, as well as the language in which the study programme is implemented		
	1. implementation variant		
	full-time, intramural form	1 year	Latvian and English
	2. implementation variant		
	full-time, intramural form	1 year and 6 months	Latvian and English
	3. implementation variant		
	full-time, intramural form	2 years	Latvian and English
8.	Place of implementation of the study programme	Kalnciema iela 6, Riga	
9.	Admission requirements		
	1. implementation variant	Professional bachelor degree in business logistics and professional qualification of logistics manager or comparable education	
	2. implementation variant	Professional bachelor degree and/or 2nd level professional higher education in commercial sciences and administration, economics, law, engineering and technology,	

		manufacturing and processing or construction thematic areas or comparable education
	3. implementation variant	Bachelor degree in natural sciences, engineering, environmental sciences, economics, management science and administration or comparable education
10.	The degree, professional qualification to be awarded or the degree and professional qualification to be awarded	Professional master degree in supply chain management and supply chain manager professional qualification
11.	Professional standard, its approval year	Supply chain manager, 2021
12.	Final examination upon the completion of the study programme	Master Thesis
13.	Director of the study programme	Ingūna Jurgelāne-Kaldava, Dr.oec.

2.1.2. The aim of the study programme

The aim of the Study programme is to develop students' professional competence for work in the field of logistics and supply chain management and its security, as well as to develop research skills to prepare specialists who are able to ensure high quality in all supply chain processes, as well as to develop an understanding of the environmental impact of the supply chain and responsible management.

2.1.3. Objectives of the study programme

Objectives of the Study programme:
- to provide competitive education in logistics and supply chain security that meets master's level, professional standard and international standards;
- to provide students with comprehensive knowledge, develop analytical thinking, build skills and develop competences, as well as promote practical work skills, preparing students for the labour market;
- to ensure the development and improvement of the content of the Study programme, the study process, as well as scientific research work in accordance with international practice and the latest software, scientific and technological discoveries and innovative methods;
- to promote students' interest in further professional development and improvement of academic knowledge, continuation of studies in doctoral studies, further training, as well as to develop interest in research work and promote the use of these skills;
- to promote cooperation between students and academic staff in the field of scientific research, the practical application of research results both in

the study process and in practice, as well as to promote international mobility and participation in local and international projects;
- stimulate students' interest in the processes taking place in society, as well as promote the formation of ethical and socially responsible personalities.

Measurements of the results of the performance of tasks are the results of student studies, an independently developed master's thesis with significant theoretical significance and potential for practical use, which includes original results of scientific research, demonstrates competencies to independently obtain, select and analyze information and use it, make decisions and solve problems in the areas of logistics and supply chain.

2.1.4. Achievable learning outcomes

On completion of the Study programme, the graduate:
- is able to determine the organization's supply chain management strategy depending on the specifics of the activity;
- is able to analyse trends in globalization and specialization of production, trade and transportation and identify key supply chain KPIs (key performance indicators);
- is able to organize the management and control of the supply chain in accordance with the strategy established by the organization;
- is able to improve the supply chain process by looking for possible solutions;
- is able to identify and address bottlenecks in supply chain management processes;
- is able to monitor the functioning of the established supply chain security risk management system;
- is able to work both individually and in a team, using their knowledge and skills, as well as is able to take responsibility for the results of their work and the decisions made;
- is able to independently conduct research with scientific and practical value in the field of logistics and supply chain security, to defend and present their point of view in a reasoned manner.

On completion of the study program, the graduate will be able to reflect **knowledge** about: global logistics and transport, management of global production and trade, supply chain and competition, supply chain performance indicators (KPIs), supply chain coordination, customs and tax systems, quality of supply chain creation and development standards, integration of production and quality management processes into supply chain processes, logistics process management, use of e-commerce processes in supply chains, responsible business management in the supply chain, management of environmental sustainability in the supply chain, logistics systems technologies, as well as technological solutions to secure supply chains.

On completion of the study program, the graduate will be able to reflect **the skill to**:
- assess trends in the creation and development of global markets for goods, services, finance and labour;

- to evaluate the principles of activities and cooperation of organizations at local and international level;
- understand the nature of competition that is relevant in the supply chain;
- assess the benefits of establishing a supply chain in a competitive environment;
- define the principles of strategic management in international organizations;
- understand the relationship between the functioning of supply chains and the economic policy of the organization;
- identify key performance indicators for supply chains;
- assess the impact of performance indicators on key supply chain processes;
- identify security risks to supply chains;
- establish a supply chain security risk management system and organise its operation;
- monitor the environmental impact of supply chain processes;
- recognise and select new technologies to be used in the operation of supply chains;
- introduce new technologies into supply chain processes.

The list of results to be achieved by the Study programme is in accordance with the profession standard "Supply Chain Manager".

Main functions: *The supply chain manager* defines the organization's overall supply chain management strategy, its management and control, leads the team of employees involved in the supply chain, is responsible for improving the processes of the entire supply chain (covering all processes in the supply chain, from the extraction of raw materials and the production of final products to their distribution to the final consumer, t.sk. including the use of information systems necessary for the coordination of these activities, environmental protection, etc.) through innovations and technological innovations in the operation of the supply chain.

Interrelationship and reach of the objective, tasks and results to be achieved of the study programme.

First of all, the study process involves both previously acclaimed teaching staff with rich pedagogical work experience, as well as teaching staff who are high specialists and scientists of their field, who, working in one team, will allow to acquire both experience-based knowledge and skills in a balanced way, as well as the most topical in the field of logistics and supply security. Secondly, the study process is implemented in relation to the requirements of the labour market, which ensures cooperation with the industry in the implementation of certain parts of the Study programme: internship, final examination, as well as practical works to be implemented within the framework of individual study courses. Thirdly, all study programmes in general and the objectives, tasks and expected results of individual study courses (acquired knowledge, skills and competences) are closely related to each other, ensuring a high degree of their reach.

The development of the study programme is based on the structure of qualifications in the transport and logistics sector agreed at the meeting of the Tripartite Cooperation Sub-Council on Vocational Education and Employment

(PINTSA) of 11 April 2018 (Protocol No. 3) with the description of the LQF level 7 "Supply Chain Manager" and the profession standard "Supply Chain Manager".

The objectives, tasks and planned study results of the Study programme are interrelated and achievable.

2.2. Actuality of the study programme

2.2.1. Justification of the creation of the study program, compliance with the trends of the industry in Latvia, the European Union and the world

The Study programme is designed in close context with the current events of the industry, the demand for professional and industry-relevant skills and competences.

The solutions to Latvia's logistics and supply chain problems are largely part of the overall implementation of the EU transport policy, making the development of education and qualifications of transport professionals one of the most important areas in order to increase competitiveness in the European labour market. The objectives of the transport development policy of Latvia and the EU coincide and are based on the creation of an efficient, safe, environmentally friendly, balanced and competitive supply chain system, of which logistics is an integral part.

Latvia is a suitable place for organizing transport logistics between the EU markets, Asia and other continents of the world. Multimodal transport corridors pass through the territory of Latvia both from East to West and from North to South. The main cargo flow, mainly transit, moves from East to West through Latvian ports – connecting Asian countries not only with Western Europe, but with the whole world.

Operators of ports, railways, road carriers, customs warehouses and brokers, logistics centres, as well as ship agents, forwarders and pipelines for oil and petroleum products provide efficient and competitive services. In the 9 months of 2022, the transport logistics sector in the Latvian economy provided 31.3% of services exports. Therefore, special attention is paid to this at both state and company level, and the largest investments in transport infrastructure – ports, railways and roads – are first invested in areas used specifically for transit.

In 2022, 48.1 million tons of cargo were handled in Latvian ports. Regular ferry services connect Latvia with Swedish and German ports. Container lines provide opportunities for container transportation to many other ports in the Baltic Sea and further ports in the EU.

The railway system ensures the organization of rail freight transportation to the CIS and Asian countries with direct exit to the ports of Latvia in the EU. In 2022, more than 21.5 million tons of cargo were transported by rail, of which 92.1% in international traffic, including 71.8% in transit through ports, 9.7% in transit by land. 7.8% of rail transport is carried out in domestic transport. The most important road, rail routes, ports and airports are included in the European Union's Trans-European Transport Network (TEN-T) network.

Latvia's transit corridors are also included in other international transport networks: the AGR (The European Agreement on main international traffic

arteries) road network of the United Nations (UN), the AGC (The European Agreement on Main International Railway lines), the combined in the transport network AGTC (European Agreement on Important International Combined Transport Lines and Related Installations), in Eurasian transport corridors EATL (The EuroAsian Transport Links) and in the networks of the Organization for Cooperation of Railways OSJD (The Organization for Cooperation of Railways).

Latvia considers as a priority the development of an efficient, safe, multimodal, balanced, environmentally friendly and competitive transport system, attraction of new transit cargoes, development of distribution and logistics centres and increase of added value of cargoes. (https://www.sam.gov.lv/en/transport-logistics).

In accordance with the sectoral policy guidelines 2021-2027, Latvia considers as a priority the development of an efficient, safe, multimodal, balanced, environmentally friendly and competitive transport system, attraction of new transit cargoes, development of distribution and logistics centres and increase of added value of cargoes.

The main priority of Latvia is cargo diversification and increasing container cargo volumes in Latvian ports, promoting the development of container trains between Asia and Europe, as well as the development of sea container line routes in the Baltic Sea and North Sea regions, with the aim of promoting intermodal sea-rail transport services between Europe and Asia through Latvian ports. When assessing transport development trends in the EU, it is planned to focus on the creation of logistics centres and attracting new cargo and investments from new markets, such as China, Japan, Korea and other countries.

When exploring other EU universities and their study programmes, the best aspects were also taken over in the design of the Study programme. Alignment with EU universities allows not only students to apply for student exchange programmes, but also foreign students to study at RTU.

From the point of view of the objectives and study results of the Study programme, as well as the degree and qualification to be awarded, the Study programme is unique in that it ensures the acquisition of professional master's degree in supply chain management and the qualification of a supply chain manager. Such opportunities are not offered in any other higher education institution in Latvia.

When developing the Study programme, study programmes of the same or similar content to be implemented in several higher education institutions of the world were analysed (for more detailed assessment see Annex 3.16.). These universities are the leading technical universities in Europe, whose scientific and study performance is also rated in prestigious international university rankings and which operate in the field of logistics studies, therefore the study programmes and study courses they offer were analysed.

- Antwerp Management School, Belgium (Master in Global Supply Chain Management);
- Kühne Logistics University, Germany (Global Logistics and Supply Chain Management);
- Jönköping University, Sweden (International Logistics and Supply Chain Management);
- WSB University in Gdansk, Poland (Master in International Logistics);

- ESDES Lyon Business School, France (Master in International Supply Chain Management);
- GBSB Global Business School, Spain (Master in Operations and Supply Chain Management);
- Sheffield Hallam University, Great Britain (MSc in Logistics and Supply Chain Management);
- University of Gothenburg, Sweden (Master of Science in Logistics and Transport Management);
- University of Salford, Great Britain (MSc Procurement, Logistics and Supply Chain Management);
- University of Windsor, Canada (Master of Management: Logistics and Supply Chain Management);
- The University of Warwick, Great Britain (Master in Supply Chain and Logistics Management (SCLM);
- University of Luxembourg, Luxembourg (Master in Logistics and Supply Chain Management).

According to the European Parliament's report on the resilience of global supply chains, the EU had already recognised its strategic dependence on a few foreign suppliers before the pandemic and has started looking for a ways to increase its autonomy due to the coronavirus. To improve the resilience of supply chains, the EU applies a set of rules aimed at diversifying suppliers and supporting a multilateral rules-based trading environment, which has also stepped up its cooperation with the US on supply chains. Other like-minded countries apply similar rules, focusing on supporting transhipments or ports.

The impact of a further increase in the importance of the supply chain is predicted by encouraging route optimization or diversification. Possible measures to achieve this include subsidies, tax incentives, tariffs and local legislative requirements, provisions in free trade agreements and government ownership/investment in strategic sectors, including through public-private partnerships. Public authorities can also contribute to the development of the supply chain through standardisation, which increases the possibilities for substituting goods and facilitates the management of global production and distribution in emergency situations. Legal certainty in trading and investment systems and supporting a strong, rules-based trading system are also projected to help create a stable environment and foster the resilience of global supply chains.

2.2.2. Outline of the content of the study programme

The content of the Study programme complies with the requirements of regulatory enactments and has been created in compliance with the conditions of the decision of the RTU Senate "On approval of the unified requirements for study programmes of Riga Technical University in a new version" (https://www.rtu.lv/writable/public_files/RTU_studiju_reglaments_4.4._vienotas_prasibas_studiju_programmam_2020.03.30.pdf) (in Latvian).

The amount of the Study programme is 40/60/80 credit points and the length are 1 or 2 years in full-time studies.

Upon graduation, students of the Study programme obtain a professional master's degree in supply chain management and the professional qualification of a supply chain manager.

During the first year of studies, both courses related to theoretical foundations of the field and limited elective study courses (related to professional specialization) are completed. In the second year of studies, internship and the development of a master's thesis are planned.

Table 1

Study courses included in the study programme

Title of the study course				
A. Compulsory Study Courses		**6**	**12**	**12**
IĀS706	Global Markets and Supply Chains	2	2	2
DMI757	Logistics Systems Management	2	2	2
IĀS740	Global Markets and Supply Chains (study project)		2	2
IĀS723	Methodology of Statistic Data Processing and Analysis		4	4
IMP746	Security processes for customs and supply chains	2	2	2
B. Compulsory Elective Study Courses		**6**	**20**	**20**
B1. Field-Specific Study Courses		6	20	20
IKI761	Quality and Environmental Management	2	2	2
IĀS751	Supply Chain Strategy Management	2		2
IĀS511	Globalization and Integration Processes in the World Economy	2	2	2
IĀS701	International Business	2	2	2
IĀS516	International Business (study project)		2	2
IĀS743	Management of International Transportation		4	4
IĀS744	Management of International Transportation (study project)		2	2
IĀS745	Business Logistics		2	2
ITE448	Global Logistics and Transport	4	4	4
C. Free elective study courses		**2**	**2**	**2**
D. Practical Placement		**6**	**6**	**26**
IĀS746	Internship	6	6	6
IĀS752	Internship			20
E. Final examination		**20**	**20**	**20**
IĀS748	Master Thesis	20	20	20
	Total CP:	**40**[*/**]	**60**[*/**]	**80**[*/**]

    * If a student has not completed study courses in a lower-level study programme which ensure the achievement of professional competence in business, technology transfer, product development, civil protection, students will acquire study courses of such content in addition to the scope of the Study programme. The list of additional study courses to be acquired and their amount shall be determined by the Director of the Study programme or his or her authorised expert on the basis of the analysis of the previously acquired study programme and should be approved by an order of the head of the responsible structural unit.

    ** Foreign students in the mandatory part of the Study programme will additionally complete the study course VSL711 "Latvian language for foreign students" in the amount of 1 CP.

    The content of the study courses is regularly evaluated and, if necessary, updated in accordance with the needs of the industry, the labour market and scientific trends.

All study courses are interrelated and aimed at in-depth training of the profession in order to prepare a full-fledged specialist according to the specialization.

At the end of their studies, students must develop a master's thesis and defend them before the State examination commission in accordance with the "Regulations on final examinations at Riga Technical University" adopted by RTU (https://www.rtu.lv/writable/public_files/RTU_par_nolikuma_par_studiju_nosleguma_parbaudijumiem_rtu_apstiprinasanu_jauna_redakcija.pdf) (in Latvian) (approved at the meeting of the RTU Senate on 28 April 2021, Minutes No. 649). In order to ensure the development of high-quality master's theses, the Department of International Economic Relations, Transport Economics and Logistics (hereinafter - SESTEL) should organise mid-term controls of master's theses twice a semester, during which the student presents the work done of the master's thesis, as well as obtains recommendations from the academic staff involved in the implementation of the relevant study programme for the improvement of the thesis.

The Study programme balances the acquisition of theoretical and practical knowledge, it allows to develop the necessary competencies and skills that are suitable for the modern labour market. The results of the mapping of study courses are interrelated with the content of the study courses and ensure the achievement of the results of the Study programme.

Annex 3.8 contains an assessment of the compliance of the Study Programme with the State Education Standard, Annex 3.9. contains the Compliance of the Study Programme with the Profession Standard and Annex 3.10. contains the Study Programme Implementation Plan.

In order to strengthen theoretical knowledge and gain experience in the field, an essential part of the Study programme is **internship**. The duration of the internship depends on the previously acquired education and qualifications. The internship of the Study programme is planned in the 3rd semester for variant 1 (in the amount of 6 CP), but in the 4th semester for variant 2 (in the amount of 6 CP) and for variant 3 (in the amount of 26 CP).

The content of the internship corresponds to the approved course descriptions "Internship" (6 CP and 20 CP).

The higher education institution should conclude an internship agreement with the employer and the student. When determining the objectives and tasks of the internship, the content of the internship should include the student's familiarization with the management structure and principles of the relevant internship organization, the specifics of the industry, etc. Representatives of organizations with which an agreement on the implementation of the internship has been concluded participate in the determination of the objectives and tasks of the internship, as well as in the evaluation of the internship. The aim of the internship is achieved by the student on the basis of the acquired knowledge, skills, competence.

The purpose and tasks of the internship are closely related to the duties and tasks specified in the profession standard, which ensures the application of theoretical knowledge in practice. The internship manager at the place of internship provides feedback (fills in a feedback) in which the assessment of the trainee's knowledge, theoretical preparedness, communication skills, etc. is indicated. Thus, continuous close ties with representatives of the industry are

maintained, thus finding an opportunity to develop and improve the Study Programme even more qualitatively and in accordance with the requirements of the labour market. For each of the internships, the student prepares an internship report, which is presented and defended in the department's internship defence committee.

Annex 3.16. contains the decision of the Senate "On the procedures for the organization of internships at Riga Technical University". As mentioned in the order of organization of internships, the internship place finsing is supported by the internship coordinator in the department. If is necessary more help, it is possible to turn to the Career Support and Services Department, where a career counselor and project manager help students with the search and outreach of internships, as well as promote the development of career management skills through various activities that can ensure successful results in the internship process. Once a year, the Career Support and Services Department organizes RTU Career Day, within the framework of which students also have the opportunity to meet with company representatives in person and communicate about future opportunities. More about the event and participants from previous years: https://www.rtu.lv/en/studentservice/career-centre/career-day   In 2021, under the influence of the remote working period, the event took place in a virtual environment.

The requirements "Methodological guidelines for the Master's Professional study program "Logistics and Supply Chain Security" has been developed for the Study programme (Annex 3.18.).

2.2.3. Enumeration and justification of the changes made in the study programme since the licensing of the study programme

Since the licensing of the Study programme, changes have been made. The amount of compulsory study courses of the Study programme (Part A) was reduced (in variant 1 from 10 CP to 6 CP, but in variants 2 and 3 from 16 CP to 12 CP), the amount of compulsory elective study courses (Part B) and field-specific study courses (part B1) was increased (in variant 1 from 4 CP to 6 CP, but in variants 2 and 3 from 18 CP to 20 CP). Free elective study courses (Part C) in the amount of 2 CP were added to the Study programme. After the approbation of the Study programme at the end of the first semester (in the reporting period until April 2023), the following changes were made in order to improve its content. The study course "Global Markets and Supply Chains" was excluded from the compulsory study courses of the Study Programme (Part A) for 6 CP, but the study course "Global Markets and Supply Chains" was included in the amount of 2 CP. The study course "Strategic Management in Supply Chains" 4 CP was excluded from the field-specific study courses (part B1), but the study course "Supply Chain Management Strategy" 2 CP was included.

2.2.4. Analysis and assessment of statistical data on students of the study programme and comparison with the planned number of students within the licensing procedure

The implementation of the Study programme was started in the spring semester of the 2022/2023 academic year. Forecasts of the number of students

in the Study programme predict an increasing number of students, reaching 40% of the number of students enrolled outside the EU in the 2026/2027 academic year. The expected drop-out rate for students is 5% per study year.

Table 2

Forecast of the number of students in the Study programme

	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Students					
Enrolled	4	10	14	19	26
% outside the EU	0%	5%	15%	40%	40%
Drop-out (from year to year)	5%	5%	5%	5%	5%
Total number of students	4	16	23	32	44
Tuition fees per year					
EU	2150	2150	2150	2150	2150
Outside the EU	3800	4000	4200	4200	4200

The indicated number of students has been selected to such an extent that, taking into account many years of experience in the existing RTU study programmes, the necessary quality of studies can be ensured.

The Study programme was started to be implemented in 2022/2023 in English. In the 2022/2023 academic year, 4 students were enrolled in the Study programme for full-time studies (two students were enrolled in the 1st variant of the implementation of the Study programme, two in the 2nd variant of the implementation of the Study programme). Of these, only two are international students from India, because according to the decision taken by the Meeting of the Study Quality Commission of the Foundation "Academic Information Centre" of December 14, 2022, No. 2022/33-L on licensing of study programmes on the short-cycle (first level) professional higher education study programme "Logistics" of Riga Technical University and the professional master's study programme "Logistics and Supply Chain Security", the license for the implementation of the Study programme was received on December 14, 2022, but the admission of foreign applicants was implemented until December 31, 2022. All students study the Study programme in English. The time of obtaining a license can be considered as the reason why the total number of students enrolled differs from the planned one. However, admission of 2023/2024. already shows that this program has generated interest both in Latvia and internationally because on 08.09.2023, 28 students were admitted (of which 3 are Latvian residents, and the rest are international students), but there are 33 potential students on the candidate list (waiting for visas).

2.2.5. Graduate employment prospects

Graduates of the Study programme will work in companies engaged in logistics, international and domestic cargo or passenger transportation, wholesale, retail, production and provision of services, as well as in state and municipal institutions whose activities are related to the transport and/ or

logistics sector or provide for the management and organization of logistics services.

Latvia's sustainable development strategy until 2030 has been developed by the Ministry of Regional Development and Local Government Affairs. The planning document provides a spatial structure for the future of Latvia. The document intends to strengthen the field of transport and storage in the regions of Latvia, to promote more efficient mutual reach of cities of national significance by ensuring national level airports in Ventspils, Liepaja and Daugavpils. Improved improvements of the road infrastructure of national significance will promote the development of the internal market, while improvement of motorways of international significance will promote external reach and competitiveness. The Rail Baltica project envisages Sectoral Research for Vocational Education – 2. Part: Description and qualification structure of the sector 52 ensure faster transport of passengers and freight by rail. All these improvements will contribute to the development of the transport and storage sector, which will consequently lead to a greater sector's workforce and acquisition of competences.

Policy 5 of the Transport Development Guidelines 2021-2027 – Fostered innovation and training of highly qualified professionals in the sector – defines that the number of graduates in education and study programmes related to the transport and logistics sector should be increased by approximately 1000 graduates each year, incl. that all must obtain professional qualifications in the field of transport and logistics.

Also, at the conference "21st century railway in Latvia: challenges and opportunities in education" organized by the Ministry of Transport on April 23, 2021 presentations emphasized that 24,000 logisticians of various levels will be needed in the near future.

An analysis of the labour market of the Ministry of Economics until 2040 indicates that the growth of the transport and storage sector will be largely facilitated by the development of the air transport and road transport sectors. In turn, in the transit sector, the dynamics will be slower, which will be determined by the need to look for new types of cargo and delivery routes in order to replace the already long-decreasing volumes of Russian oil products and coal cargoes.

The Ministry of Economics plans that the average growth of the transport and storage sector from 2020-2027 will be 1.5% per annum, and from 2028 to 2040 even 2.5% per annum. Consequently, the demand for middle and high-level logistics workers in the labour market is also predicted.

According to the Ministry of Economics, the analysis of the workforce shows that in the group of educational programs "Transport Services" in 2027 there will be a shortage of 1500 specialists with higher education. This is due both to changes in the economy and to the fact that of the economically active population employed in the field of "Transport Services", 43% are over 50 years old.

It is noted that in both the medium and long term, the demand for labour in the transport and logistics sector will continue to restructure in favour of higher-skilled specialties. Also, an increase in the demand for labour is expected both for specialists with higher education, as well as for vocational secondary and vocational education. The demand for employees with secondary general education will decrease. In 2019, more than 1/3 (34%) of

those employed in professions in the transport and logistics sector had only secondary general education.

An analysis of the labour market of the Ministry of Economics until 2040 indicates that the growth of the transport and storage sector will be largely facilitated by the development of the air transport and road transport sectors. In turn, in the transit sector, the dynamics will be slower, which will be determined by the need to look for new types of cargo and delivery routes in order to replace the already long-decreasing volumes of Russian oil products and coal cargoes.

The most important professional knowledge, skills and competences that employers have additionally indicated, what is expected of specialists who have acquired professional higher education working in the professions of the industry: the ability to follow and analysae world trends in the industry, identification of new markets, attraction of new customers and development and introduction of new products, to develop proposals for the development of the company, modelling, designing and making design changes for products and services.

A more detailed description of the enrolled students is available in Annex 3.1 "Statistical data of students in the study programme *Logistics and Supply Chain Security*".

2.3. Resources and provision

2.3.1. Characterization and assessment of study bases, science bases (if applicable), informational bases (including libraries), material and technical bases and financial bases

Assessment of the study base necessary for the implementation of the study programme

The Study programme is implemented by the Department of International Business, Transport Economics and Logistics, a structural unit of the FEEM Customs Institute, which has so far implemented the professional master's study programme "Management of International Economic Relations", thus the Study programme has a study base and provision corresponding to its implementation. The Department of International Business, Transport Economics and Logistics will provide teaching and methodological work, management, defence of final works, as well as activities related to scientific work.

Many structural units of RTU will be involved in the implementation of the Study programme, because during the first year of studies compulsory study courses are combined with several study programmes. The following structural units of RTU are involved in the implementation of these study courses:
1. Department of Customs and Taxes;
2. Faculty of Computer Science and Information Technology;
3. Humanities Institute;
4. Institute of Labour and Civil Protection;
5. Department of Innovation and Business Management;
6. Department of Social Sciences;
7. Department of Special Use Languages, etc.

There is also close cooperation with professional master's study programmes: "Management of International Economic Relations", "Customs and Tax Administration" and "Economics", which allow to use the already existing study courses in the Study programme, involving academic staff in the learning process, using part of the special study courses of professional studies in the training process. By cooperating in this way, a wide range of professors, associate professors, assistant professors and lecturers is included in the implementation of the Study programme, which will ensure the provision of study courses of the Study programme with highly qualified academic staff.

Assessment of the information and methodological base

The infrastructure and material and technical provision available for the implementation of the study programme, due to the high level of digitisation, provides an opportunity to increase the competitiveness of the university, the quality and efficiency of its activities, as well as the availability of information by integrating IT solutions into the administrative, study and scientific work processes of the university, providing students, administrative and academic staff with modern, reliable, secure and unified IT infrastructure and quality IT services.

In order to ensure simple and efficient identification of IT users, an IT user identity management system has been introduced, as a result of which a unique electronic identity is created and maintained for each IT user, which is valid in all information systems. In addition to the above, a user session management system in IT systems is provided, as a result of which, when making a single login to RTU information systems, IT users do not need to re-authenticate. This gives the experience of using a unified integrated information system, without the need to memorize various identification data and re-enter them, realizing different IT usage scenarios.

All IT users are provided access to the centralized portal ORTUS (https://id2.rtu.lv/openam/UI/Login?locale=en) (in Latvian&English) which functions as a single digital gateway, combining information from all RTU information system components and providing users with an easy-to-use way of accessing the directory of all IT services in one place.

The Centralized Study Management System is used for efficient administration of the study process, which ensures digital provision of the study life cycle, incl. Electronic Register of Study Programmes (its public part is available at https://stud.rtu.lv/rtu/vaaApp/sprpub) (in Latvian&English), drawing up learning agreements and enrolment of students in study programmes, Register of Study Courses (its public part is available at https://stud.rtu.lv/rtu/discpub/list?english=true), designing student's individual study plans, drawing up orders, implementing study courses and study process, registering grades, recognizing study courses, awarding qualifications, administering payments, hostel information, gathering information to issue diploma supplements, etc. This system is one of the main cornerstones in the administration of RTU study process.

To ensure effective implementation of the study process, Moodle e-learning system is used, where all relevant information is compiled in an automated way (study courses, users, groups, access rights, etc.). This system ensures student-instructor communication. The academic staff members place various electronic materials, assessment tests, homework assignments,

information on a particular study course, etc. in the system. Students can also view their financial information on the ORTUS portal, as well as make request for documents (references, transcripts of records, copies of a learning agreement, etc.). For online distance learning RTU academic staff has options to use *Zoom* or *Microsoft Teams* video conferencing platforms.

Since 2007, more than 130,000 unique study course sites have been generated in the e-learning environment of RTU. Students can access electronic learning resources anytime and anywhere.

Digitization of classrooms and schedules has been carried out to ensure efficient premises management and study planning (https://telpas.rtu.lv (in Latvian); https://nodarbibas.rtu.lv/?lang=en). Each RTU student and academic staff member can access their schedule, which provides information on the venue, time, instructor, room, title and type of lecture. In addition, for user's convenience purposes, the system greatly facilitates lecture planning and scheduling, as well as optimizes the use and efficiency of premises.

Electronic Staff Management and Record-keeping Systems, which cover the circulation of record- keeping and personnel documents at RTU (https://docs.rtu.lv/) (in Latvian) are also used to ensure the efficient administrative work. Electronic document coordination and document e-signing functionality have been introduced, thus reducing print-based document circulation and significantly increasing document circulation speed. Since autumn semester 2019, students have been provided with electronically signed learning agreements. Since 2016, RTU graduates have been receiving electronically signed transcripts of records.

In terms of quality assurance, a digital student survey system is used, with the help of which the quality control of study courses and study programmes is implemented each semester. Based on the results of quality control, regular measures are taken to improve study programmes and the study process, in general.

For the additional convenience of RTU students, academic and general staff members, RTU leases Microsoft Windows and Microsoft Office software, which provides all IT users with access to the latest Microsoft software. RTU students can use the licensed Windows operating system and the Microsoft Office productivity suite provided by RTU for study needs. All IT users have access to Microsoft Office 365 cloud computing platform with one terabyte of storage space available to each user and access to a variety of additional collaboration and productivity tools (Microsoft Teams, SharePoint Online, Forms, OneNote, OneDrive, Outlook, etc.). RTU students, academic and general staff have access to the University's email system.

To support research activities, RTU has developed the Centralized Research Support System, which records all information on publications, patents, commercialization applications, Doctoral Theses, RTU scientific journals, research staff, etc. The system provides access to information according to Open Access principle (https://ortus.rtu.lv/science/en/) RTU students and academic staff also have centralized access to research software.

RTU has high-speed fibre optic Internet and extensive wireless network infrastructure with over 400 access points, including the international *Eduroam* service. In addition, desk phones and mobile communications are provided for fast and easy communication.

To ensure a stable and secure operation of the information technology infrastructure, continuous monitoring of the IT infrastructure and systems is performed, resulting in proactive incident control. Data backup is also ensured. The Information Systems Security Policy has been developed and implemented with the primary goal of ensuring the secure use of RTU information systems by establishing and maintaining a sufficient set of measures to reduce or prevent potential or resulting harm. Implementation of the Information Systems Security Policy envisages security checks, data transmission network monitoring, as well as preventive measures. Regular IT security and personal data protection training is organized for IT users. Automated security incident management and risk management have been implemented. Statistics demonstrate that the number of IT security incidents dropped significantly over the last five years.

The IT User Support Centre provides IT user support, by applying a one-stop approach to process applications based on ITIL guidelines. Since 2007, the IT User Support Centre has processed and resolved more than 160,000 IT user applications.

RTU Scientific Library (hereinafter - SL) is a library of national significance, which has acquired its status as a result of the accreditation of libraries. SL provides RTU study process and research activities with the necessary information, performs librarianship, bibliographical and informational services of RTU students, teaching staff, employees. It has 1.3 million printed documents and e-resources in RTU sector-specific databases. The collection is located in the Central Library, a subscription to educational literature, the Chemistry Branch, the Transport Branch and study and research centres in Daugavpils, Liepaja, Cesis and Ventspils.

In 2016, significant investments were made in the development of the library infrastructure, building additional premises with an area of 2240 m^2. The total area of SL premises is 6393 m^2, of which reader service rooms are 3417 m^2. SL users have 713 jobs. SL has four group rooms and six individual booths, a rarity reading room, a conference room. It is available for users with special needs.

In order to improve the activities of the SL and to ensure the informational needs of studies and research work, the Library Council has been established, where it is decided on supplementing the library collection with printed editions and subscribing to the necessary databases. The Library Council has approved the "RTU Scientific Library Collection Acquisition Policy", which determines the basic principles of the creation and development of the collection, in accordance with the directions of RTU studies and scientific activity.

Upon receipt of funding from RTU SL, the funding for information resources for each study programme is calculated. The replenishment of the collection is carried out according to the recommendations of the study programme managers and researchers, taking into account the allocated funding. By contacting the Library Collection Department about replenishing the collection, the desired expenses can be ordered on the library's website by filling out the order form (https://www.rtu.lv/en/studies/scientific-library/services-3) or filling out the application form or calling 67089353, or visiting the library at Paula Valdena iela 5-105. Scientific Library offers a guide that summarizes the websites of various Latvian and foreign publishing houses and bookstores for searching for ordered editions and e-resources.

Database subscription agreements are concluded both directly with the supplier and through the Cultural Information Systems Centre, which is the Latvian national representative for the international non-profit organization Electronic Information for Libraries (EIFL, http://www.eifl.net/). The EIFL Licensing Programme offers libraries of state importance to subscribe to internationally recognized databases at a significantly reduced subscription fee that is not offered to individual subscribers, thus saving the financial resources of libraries.

Every month, the list of the newly-received literature is published in the SL newly-received literature bulletin ((https://www.rtu.lv/lv/studijas/biblioteka/jaunieguvumi) (in Latvian&English)).

Students have access to the databases subscribed to by the RTU library: (https://www.rtu.lv/en/studies/scientific-library/electronic-resources):

- ProQuest Ebook Central contains approximately 51,700 full-text e-books published by the world's leading scientific publishing houses – Elsevier, Wiley, Springer, Oxford Press, Emerald, etc. in various fields of science, as well as economics, finance, business;
- ScienceDirect - a database of scientific, technical and medical articles created by the publishing house Elsevier. More than 2500 full-text journals (Freedom Collection) from 2002/2005 and 354 full-texts of books are available in various fields of science, as well as in economics, finance, business, management and accounting;
- Academic Search Complete EBSCOhost - 8800 full-texts of periodicals in various branches of science, as well as economics, finance, business, management and accounting;
- Applied Science & Technology Source EBSCOhost - 1200 full-texts of periodicals (applied mathematics, computer engineering, artificial intelligence, robotics, mechanical engineering, aeronautics, energy, chemical technology, textile industry);
- Business Source Ultimate EBSCOhost - 5100 full-texts of periodicals (management information systems, management, production management, marketing, economics, finance, accounting, international trade, insurance);
- EBSCOhost's eBook Academic Collection contains approximately 180,200 full-text eBooks in English published by the world's leading scientific publishing houses— in various fields of science, as well as in economics, finance, business, management and accounting;
- Wiley Online Library database contains more than 1360 full-text journals (Full Collection) from 1997 in various fields of science, as well as in economics, finance, business, management and accounting;
- The SpringerLink database contains Springer's books (~13,100) published in 2014-2018 in various industries, as well as business and economics;
- The International Monetary Fund (IMF) eLibrary offers access to important global economic information - IMF resources, periodicals, books, statistical databases and research on macroeconomics, financial crises, globalization, trade, international relations, politics, etc.;

- LETA sectors: "Construction and real estate", "Macroeconomics", "Industry", "Trade and services", "Transport and transportation", "Tourism, hotel business";
- Latvian Standards Database.

The use of databases in the SL has been growing since 2016 (see more detailed description in Annex 3.17. *Information about Library provisions for students*).

SL new premises made it possible to expand the range of services for users. Since the opening of the new premises, the number of visits has increased from 103825 to 691200. Central Library of SL is open monday through saturday (https://www.rtu.lv/en/studies/scientific-library/opening-hours-and-contacts). There is a 24h reading room. During the summer period, the Central Library is open every working day with reduced working hours.

SL sources of information are in the open-access collection. Books and periodicals according to RTU study fields are located in the SL central building at P. Valdena Street 5 according to the UDC indices. The last copy of the older editions corresponding to the RTU profile is stored in the SL storage. They are always available to users.

The librarian on duty helps to navigate the collection. More detailed information and advice is provided by bibliographers (information specialists). SL is an established branch librarian service (https://www.rtu.lv/en/studies/scientific-library/branch-information).

Searching for SL resources is ensured by the PRIMO Discovery search tool). It allows searching for the information in the library catalogue, subscribed databases, as well as in databases created by the SL. Searching for the information in the union catalogue, one can simultaneously obtain information about the available resources in 12 libraries in Latvia.

Both the electronic catalogue and RTU portal ORTUS can be used to reserve the library resources remotely. Remote access to databases is also provided. Since the introduction of RFID technology, users have been able to use five book-dispensing self-service vending machines and return books to a book-sorting vending machine around the clock.

SL provides students, academic staff and other interested parties with individual counselling and group training in the development of information literacy at various levels (https://www.rtu.lv/en/studies/scientific-library/user-training).

Editions that are not available in ZB are delivered through an interlibrary loan or International Subscription. Internet access is provided throughout the SL. It has copying, scanning, printing, binding services and a self-service dining room.

Scientific Library can be contacted by: asking the librarian (https://www.rtu.lv/en/studies/scientific-library/ask-librarian), using the reference email, calling the reference number.

Since, according to the profession standard, the future supply chain manager must be familiar with the field of taxation and customs, students of the Study programme are provided with the opportunity to improve their knowledge during lectures and practical classes in the Customs Control Laboratory, which was established at the Department of Customs and Taxes of RTU FEEM with the support of the Customs Administration of the State Revenue Service. The laboratory is equipped with various measuring devices and technical means

used by customs officers in their daily work when inspecting vehicles and persons, such as devices for measuring density and radiant flux, metal detectors, endoscopes, drug tests, etc., which make it possible to check that there are no smuggled goods hidden in the vehicles. In order to train students' abilities to find smuggled goods in practical classes, special hideouts have also been created in hollow boards, car doors, seats, fuel tanks and tires. Thus, hiding places often used in Latvia for the transportation of unauthorized goods are imitated in the laboratory.

The laboratory is also equipped with equipment for the demonstration of various customs control training films and videos.

Thus, it can be concluded that the resources and provision of the Study programme are appropriate to the needs of the Study programme.

Information on the financial base

RTU's funding from the State basic budget consists of the study base funding corresponding to the list of study programmes and the number of students, which consists of funds for utility payments, taxes, infrastructure maintenance (including provision of data to the Register of Students and Graduates), purchase of inventory and equipment and staff remuneration and other costs related to the study process, as well as funding for scientific activity.

The number of study places is allocated after negotiations with the Ministry of Education and Science. The funding of the study base from the State budget funds should be granted for full-time studies. The amount of the study base funding should be determined on the basis of the number of study places determined by the State at RTU, as well as the base costs of the study place determined by the State and the study cost coefficients of the thematic areas of education.

Study cost coefficients of the thematic areas of education are indicators that determine the amount of the costs of the place of study in the relevant thematic area of education in relation to the base costs of the place of study.

The study cost coefficients of the thematic areas of education for bachelor's and vocational study programmes are specified in Annex 1 to the Regulation "Procedures by which Higher Education Institutions and Colleges shall be Financed from the Funds of the State Budget" (https://likumi.lv/ta/id/149900) (in Latvian) approved by the Cabinet of Ministers of 12 December (hereinafter - the Regulation).

The values of study cost coefficients for master's study programmes are one and a half times, but for doctoral study programmes - three times higher than the values of study cost coefficients specified for the relevant thematic field of education in Annex 1 to the Regulations.

The amount of the basic study funding granted to a higher education institution or college from the State budget funds for the implementation of bachelor's, vocational and master's study programmes should be calculated using the following formula:

$$F_s = T_b \times [S(k_i \times n_i) + 1{,}5 \times S(k_i \times m_i)] + S_b \times S(n_i + m_i), \text{ where}$$

F_s - the amount of study funding;

T_b - the baseline cost of the place of study;

k_i - coefficient of study costs of the relevant thematic area of education (Annex 1 to the Regulations);

ni - the number of study places specified for a higher education institution or college in bachelor's and professional study programmes in the relevant thematic field of education;

mi - the number of study places in master's study programmes in the relevant thematic area of education;

Sb - social security costs of the place of study in bachelor's, professional and master's study programmes (Annex 2 to the Regulations).

The base costs of the place of study and the social security costs of the place of study shall be determined in accordance with Annex 2 to the Regulations.

Each year the Ministry of Education and Science calculate the base costs of the place of study for the next budget year and, by 1 November of the current year, co-ordinate the calculations with the Ministry of Finance and those ministries to which higher education institutions and colleges are subordinate.

RTU's funding from the State basic budget for the provision of study places in the relevant study year shall be distributed in accordance with the RTU rector's order "Approval of the methodology for the distribution and use of funding for RTU structural units" in the relevant academic year (hereinafter - the Methodology). The methodology is reviewed and approved annually in a new version, taking into account the necessary changes.

RTU has a decentralised budget and a separate budget is planned for each structural unit. A budget, in a general sense, is a plan of revenue and expenditure for a particular period, work, event or function. RTU revenue and expenditure are managed according to the principles approved by the rector or determined by the vice-rector for finance with the powers conferred on him.

According to the Methodology, funding is allocated to structural units either according to the financial or budget year, or immediately after receiving the funding. For RTU structural units, the financial or budget year is from October to September of the following year, for this time period the calculation and allocation of funding is carried out:

- the grant or basic budget funding (training of students from the state budget) is allocated as a monthly limit – 1/12 of the calculated annual funding is allocated to the structural unit per month;
- paid student funding (paid student training, including debtors' fee funds) is allocated twice a year (in October and April) as a monthly limit – 1/6 of the calculated semester funding is allocated to the unit per month;
- the funds of the debtors' fees (including those recovered) are allocated twice a year (in October and April) in a single payment;
- performance funding (science support funding) is allocated as a monthly limit – 1/12 of the calculated annual funding is allocated to the structural unit per month;
- The science base funding (science support funding) is allocated once a year, in October.

RTU provides each head of the structural unit with remote access to operational financial information on the budget of the structural unit, including the planned amount of work and, accordingly, the funding to be allocated in subsequent periods for the implementation of study programmes and study courses. Based on this information, the head of the structural unit at the beginning of each financial or budget year plans the work of the structural unit t.sk. remuneration issues for academic staff subordinate to the particular head

of the structural unit and drawing up a procurement plan for the following year in accordance with ensuring the operation and development of the study programme or study course, etc.

In addition to the seats financed by the state basic budget, the study programme financing also consists of tuition fee revenue from the resources of natural or legal persons, which can be divided into two subgroups:

1. revenue from local fee-paying students;
2. revenue from foreign fee-paying students.

Funding from local fee-paying students is allocated in compliance with the Methodology where, in order to provide greater opportunities for the development of fee-based study programmes, for several academic years, a significant amount of the funding received has been channelled to the head of study programme, who may appropriately use this funding to renew facilities and attract higher-level specialists for the implementation of the study process, etc.

Until academic year 2021/2022, the funding from foreign fee-paying students in a respective academic year was allocated in accordance with the Resolutions of RTU Senate "On Approval of the Methodology for Allocation of Funds for Study Process Provision at the International Cooperation and Foreign Students Department" in the Respective Academic Year (see the file of Annex 41 of the List of Internal regulations; hereinafter – Methodology2). It was revised and approved every year taking into account necessary changes.

Starting from 2022/2023 acad. year RTU has one "Methodology of funding distribution and utilization for RTU structural units" approved by the order of the rector, which includes the distribution and utilization of funding from the state funds, local student fees, and foreign student fees. This year, RTU made significant changes in the Methodology in order to bring the principles of distribution of foreign fee-paying students closer to the principles of distribution of local fee-paying students, thus facilitating the work process responsible for the realization of study programmes – both by bringing the funding distribution periods and principles closer.

Analysing the financing procedure of the study programmes and the study fields at RTU as a whole, it can be seen that the state basic budget and local fee-paying student funding, in the long run, are determined taking into account the basic principles established by the state (starting from 2022/2023. acad. year, the principles of calculation for foreign students have been equated to the principles of calculation for local students). In the process of determining the amount of funding, the study cost coefficients of the thematic areas of studies and the values of the study cost coefficients according to the level of the study programme, as well as the number of students at the study programme and the study courses implemented therein are taken into account. As mentioned above, by using study cost coefficients of the thematic areas of studies, it is possible to determine the amount of financing required for the implementation of a particular study programme and study course. In the Methodology for the academic year 2018/2019, RTU Senate approved that in the future the study cost coefficients of the thematic areas of studies would be applied individually to each study course of the study programme, thus ensuring an even more appropriate amount of financing for the implementation of study courses included in the study programmes. In order to implement this system, the Expert

Committee was established by order of the Vice-Rector for Academic Affairs, who determined thematic areas of studies for each study course.

Table 3

Thematic area of RTU study courses	RTU coefficient
Logistics	1.8

In order to ensure the functioning and sustainable development of study programmes, RTU has been improving the Methodology and previously also Methodology2 for each academic year in accordance with changes in the external and internal environment, thus also eliminating possible risks in the implementation process of the study programme or its study courses. The transition process involves all stakeholders, thus ensuring transparency, as well as a transparent decision-making process. The required changes are at first initiated by RTU Vice-Rector for Finance, and additional changes can be initiated by any RTU employee by submitting a request to RTU Vice-Rector for Finance or to the Finance and Budget Committee of RTU Senate.

Assessment of the material and technical base

The construction of RTU Ķīpsala campus began in 1965 with the aim to create a unified study and research centre. The construction process is underway, and it is envisaged to host the majority of university students in Ķīpsala from 2021. After completion of the construction, RTU Ķīpsala campus will become the most modern engineering study centre in the Baltic States.

The issue of sustainable development is taken into account in the construction process of the campus. Recognizing its concern for sustainable development and demonstrating its willingness to engage in the promotion of sustainable development, RTU has joined the Sustainable Development Solutions Network, which seeks to achieve the 17 UN Sustainable Development Goals (SDGs) by 2030. RTU is currently the only organization in the Baltic States that has been admitted to the network.

Through its networking activities, RTU, as a higher education and research institution, has prioritized the achievement of seven UN SDGs that coincide with RTU research platforms. RTU considers the provision of quality education and the promotion of lifelong learning to be its primary goal. RTU also intends to contribute to research and innovation in sustainable and modern water technologies, power systems, infrastructure and urban environment. The University is also committed to promoting the creation and distribution of sustainable products.

RTU buildings are equipped with state-of-the-art climate control equipment, technical solutions that are remotely controlled and provide the opportunity to track energy consumption to make buildings more comfortable for students, academic staff, researchers and guests. One of the results achieved in the development of RTU infrastructure is the participation in the Green Metric Ranking (https://greenmetric.ui.ac.id/rankings/overall-rankings-2022/rtu.lv), which recognizes RTU Ķīpsala campus as the 55th greenest campus in the world. In the Baltic region, RTU is a leader in terms of green thinking infrastructure.

To reduce human impact on the environment and climate change, RTU has introduced the concept of Green Ķīpsala at its campus by improving its

infrastructure in compliance with sustainability principles, changing student and staff habits, and using innovative green products and technologies developed by RTU researchers in Ķīpsala campus infrastructure.

The infrastructure of Ķīpsala campus provides students, staff and guests with all the necessary services and utilities, e.g., it is possible to park a bicycle and a car, quench one's thirst at water drinking points. Developing the infrastructure, care is taken of all groups of people, including people with disabilities: each building has parking lots, easy access to classrooms, laboratories and other facilities, the use of Braille to provide essential information, as well as all sanitary facilities are designed according to the requirements. The association of people with disabilities and their friends APEIRONS (https://www.apeirons.lv/) (in Latvian) commends RTU for its achievements in infrastructure related issues for people with disabilities.

In RTU Ķīpsala campus, there are currently 54 classrooms, 187 laboratories, 19 special training rooms, 10 computer classrooms, 12 workshops and several research centres of national importance. The campus also houses a hostel with 950 beds and a special area for people with disabilities.

Foreign students, visiting lecturers and university guests can use the renovated RTU student accommodations (Āzenes 22a, Riga).

Other elements of RTU infrastructure are also available for the needs of students and lecturers - canteens and cafes located in each of RTU complexes, photocopiers, hostels, RTU sports and recreation centres, swimming pool, etc. RTU premises are equipped with drink and snack vending machines.

Wi-Fi is provided in all classrooms of the campus which allows students to access study materials placed on the RTU study portal ORTUS.

The Study programme is implemented in Riga, Kalnciema street 6.

The FEEM building at Kalnciema Street 6 is also accessible to people with disabilities:

- access to the building is through the basement, to which a path suitable for a wheelchair leads;
- an elevator is available;
- on the 1st floor there are suitable amenities;
- in the auditoriums, the width of the doors is adequate;
- easy access to the canteen.

Table 2.4.

Training block at Kalnciema street 6, Riga

No. p. k.	Type of use of space	Number
1	Audience	30
2	Laboratory	5
3	Dean's Cab./Dean's Office	2
4	Cabinet	33
5	Academic staff – consultation room	29
6	Methodical cabinet	2
7	Student Parliament Room	1
8	Hemicycle	1
9	Customs Museum	1
10	IEVF History Museum	1

11	Diner	1
12	Auxiliary premises, sanitary facilities, warehouse, wardrobe	27
	Together:	**133**

2.3.2. During the reporting period, analysis of changes in the composition and qualifications of teaching staff and evaluation of these changes (impact on the quality of studies, implementation conditions and compliance with the requirements of regulatory enactments)

RTU's scientific and academic staff is involved in the implementation of the Study programme: seventeen with a doctoral degree, two with a master's degree. The justification for the choice of teaching staff is based on the field of activity, scientific experience, achievements, research, etc., directed to the specifics of the Study programme and study courses.

As per needed, guest lecturers who work in companies are involved. Lecturers from foreign universities are regularly invited, introductory lectures are organized, in which they share theoretical and practical knowledge, tell about their experience and principles of activity in the relevant country.

The Study programme is also implemented by teaching staff of other structural units of RTU (from the Department of Customs and Taxes, from the Department of Quality Management, from the Department of Modelling and Simulation, the Department of Social Sciences). Sectoral experts are also invited as guest lecturers for the implementation of study courses.

Young academic staff and scientists whose activities and research areas are related to logistics and security of supply are also involved in the implementation of the Study programme.

Since the beginning of licensing, there have been significant changes in the teaching staff. The leading researcher (Dr.sc.ing) Jānis Mazais, who was responsible for the implementation of the study course "Quality and Environmental Management", has retired, therefore, professor (Dr.oec) Inga Lapiņa is teaching the study course in his place, but in order to ensure the acquisition of the Latvian language by foreign students and an increase in the number of teaching publications, the study course "Latvian language for foreign students" will also be taught by professor (Dr.philol) Larisa Iļinska.

The full list of academic staff members is summarized in Annex 3.2., the Curriculum Vitae of newly engaged teaching *staff* is in Annex 3.4., while statistics on incoming and outgoing mobility of teaching staff during the reference period are summarised in Annex 3.5.

The qualification of teaching staff is determined in accordance with the requirements of the Law on Higher Education Institutions. The following will be involved in the implementation of the Study programme:
  - seven associate professors - doctors of science whose scientific and pedagogical qualification conforms to the criteria laid down in the laws and regulations regarding the assessment of the scientific and teaching qualifications of an applicant for the position of associate professor;
  - four professors - doctors of science whose scientific and pedagogical qualification conforms to the criteria laid down in the laws and regulations

regarding the assessment of the scientific and pedagogical qualification of an applicant for the position of professor;

- three assistant professors - doctors of science whose scientific and teaching qualification conforms to the criteria laid down in the laws and regulations regarding the assessment of the scientific and pedagogical qualification of an applicant for the position of docent.

Researchers and guest lecturers from industry companies also participate in the implementation of the Study programme: for example, AS "LatRailNet", SIA Gefco Baltic, AS "Pasažieru vilciens", SIA "Orkla Biscuits Production", SJSC "Latvijas Maritime Administration", AS "HansaMatrix", SIA FINEKS MT, SIA "Albert Berner", Latvian Association of Passenger Carriers, Latvian National Association of Freight Forwarders and Logistics (LAFF), Latvian Logistics Association, Riga Planning Region, Ministry of Finance of the Republic of Latvia, Ministry of Economics of the Republic of Latvia, etc.

The teaching staff involved in the implementation of the Study programme is engaged in scientific research, as evidenced by the scientific publications of the teaching staff. The teaching staff participates in international scientific conferences and international exhibitions both in Latvia and abroad. A number of both scientific projects and projects are regularly implemented in programmes such as industry research, in which the majority of the teaching staff involved in the implementation of the Study programme are involved. The teaching staff is also active in performing both scientific and contract work related to the study process. The teaching staff regularly visits foreign universities with guest lectures. Teaching staff have the opportunity to develop professionally and gain valuable experience in foreign universities through Erasmus+ or project mobility opportunities), which is aligned with the development strategy of the European Higher Education Area. Also, teaching staff have the opportunity to do internships in companies in the industry, as well as learn English. The teaching staff of the Study programme regularly participates in the qualification improvement events organized by the RTU Trade Union, the Student Parliament, the IT Department and the Department of Studies.

Courses and seminars on the latest teaching and pedagogical methods are organized for academic staff, as well as attendance of refresher courses is promoted both at the internal events of the faculty, at the RTU level, and internationally. The Centre for Academic Excellence has been established and operates at RTU, which organises events for the improvement of academic staff at the university level.

The Centre for Academic Excellence (Centre for Teaching and Learning) has been established with the aim of providing support to the academic staff of RTU (in the areas of pedagogical, intercultural communication and self-improvement).

The main tasks of the Centre for Academic Excellence are as follows:

- to organize various educational events, such as seminars, thematic series of events, guest lectures, conferences, discussions with the participation of the Latvian and foreign specialists;
- to coordinate experience exchange activities within faculties and other organizational units;
- to inform (including posting to ORTUS) the academic staff about the latest teaching and learning trends that are appropriate for RTU;

- to provide guidance to academic staff on the use of teaching and learning methods, as well as on the assessment of students' knowledge, skills and competence;
- to inform students about learning opportunities, such as platforms, systems, applications, effective methods and forms of learning that can be used both in the study process and individually.

Each semester, a core set of activities is offered taking into account the professional competence and needs of the academic staff, which are identified through a survey, in which the lecturers indicate the most important topics and areas in which they want to improve themselves. Student surveys data and information from student self-governments are also evaluated, to gain some topics which should be improved for lecturers from students' point of view. At the same time, proactive actions are being taken to assess the potential needs of academic staff.

The Centre for Academic Excellence organizes two methodological conferences a year. The conference organized in the autumn semester is dedicated to the modern content of the study courses, while the conference held in spring focuses on modern teaching and learning methods. Materials of all events are available on ORTUS within the study course "Materials of the Centre for Academic Excellence".

After each professional development event, participants complete assessment questionnaires, which enable organizers to improve the range of offered events. In order to promote the development of competences of the academic staff, the student surveys are analysed each semester, as well as discussions with the representatives of faculties, student self-governments and the instructors themselves take place.

Lecturers have the opportunity to improve their English language skills by applying to the courses offered by the RTU Institute of Applied Linguistics or by the RTU Riga Business School, which are organized thanks to SOO 8.2.2 project funding.

With the emergency situation and lecturing switching to the remote mode, the CAE on the ORTUS portal prepared a site "Support in the provision of remote courses". The site consists of six sections: General Information, Technical Assistance, Pedagogical Assistance, Experience Stories, Distance Exams and Mutual Support. Each section is regularly updated with relevant resources. Lecturers appreciate such a resource, and also suggest what other materials should be included.

Since March 2020, almost 80 webinars have taken place (both organized by CAE and international partners, in which RTU lecturers were invited to participate). Webinars organized by the CAE were recorded, with more than 400 participants participating online, and the recordings were viewed more than 650 times.

RTU IT User Support Centre regularly organizes training on IT systems and the latest technology tools for RTU academic and general staff. Training is organized on the following topics:
- e-learning environment (Moodle) for beginners;
- e-learning environment (Moodle) for advanced users;
- MS Outlook email and calendar;
- Office365 Teams and OneDrive;
- searching in subscribed databases;

- record-keeping systems;
- basic IT security issues working with RTU information systems.

The teaching staff involved in the Study programme are actively involved in the implementation of projects related to the field of logistics. The teaching staff has implemented projects such as "Conducting a study on the fulfillment of investment prerequisites for the implementation of a comprehensive transport planning system, which includes investment mapping and the development of an investment assessment methodology", as well as the "UniLog" project, within the framework of which study courses in logistics were developed.

At the moment of submitting the accreditation documents of the Study program, the following project applications in the field of logistics have been submitted: 1) Erasmus+ project Train4RailBaltica; 2) Connecting Europe Facility in the project "Cross-Border Operational Digital Platforms for Energy and Transport".

The teaching staff involved in the Study programme actively use international cooperation and mobility programmes. In the academic year 2020/2021 due to the impact of the Covid-19 pandemic and the restrictions imposed, the incoming and outgoing mobility of teaching staff was not implemented.

In the academic year 2021/2022, the Study programme director, associate professor Ingūna Jurgelāne-Kaldava travelled to the University of Cambridge (Great Britain) and RHF Koeln University (Germany) within the framework of the Erasmus+ programme to promote joint cooperation in science and project development. In turn, visiting Associate Professor Olga Bogdanova went to the University of Durres (Albania) to gain new knowledge in the field of logistics and international communications.

In the academic year 2022/2023, the Study programme director, associate professor Ingūna Jurgelāne-Kaldava went to Lahti University of Applied Sciences (Finland) and Heilbronn University (Germany) within the framework of the Erasmus+ programme to promote joint cooperation in science and the development of logistics projects.

Already from 2020, the teaching staff involved in the Study programme has been exchanged with the teaching staff of the Lithuanian Maritime Academy. Every semester, one of the teaching staff of the Lithuanian Maritime Academy provides lectures to students of the RTU professional bachelor's study programme "Business Logistics" on the topic of maritime transport logistics, while the teaching staff of the RTU study programme lectures to students of the Lithuanian Maritime Academy on logistics supply chains and land transport. Thus, internationalization between universities of both countries, exchange of experience and transfer of specific knowledge to students in the study programme takes place. This cooperation continues also within the framework of the Study programme.

In the spring semester of the 2022/2023 academic year, the study course "Globalization and Integration Processes in the Global Economy" will be implemented by Runno Lumiste, lecturer at Tallinn University, in addition guest lecturer of the elective study course "Corporate Social Responsibility" from Sri Lanka Thuwakku Mudiyanselage Hasindu Sandaruwan Wadana, and the guest lecture cycle "Operations, Networks & Partnerships" Rheinische Fachhochschule Köln Professor Thomas Decker in cooperation with the

University of East London (UEL) will participate in Study programme implementation.

In order to increase the international competitiveness of the Study programme, in autumn 2023 is planned to submit and implement the continuing education course "The FIATA Higher Diploma in Supply Chain Management" of the International Federation of Freight Forwarders (FIATA International Federation of Freight Forwarders), which results in an internationally recognized certificate confirming the quality of knowledge. The module covers topics such as global procurement management, contract management, production and logistics management. This module will be offered to both students and other interested persons who want to improve their qualification and obtain an internationally recognized diploma.

FIATA International Federation of Freight Forwarding Associations is a non-governmental organization representing forwarders around the world. Currently, the association has 109 members, representing more than 5959 sole proprietorships and logistics companies. Many state organizations, state institutions and international organizations in the field of transport have recognized FIATA as a representative of the freight forwarding industry, such as the International Chamber of Commerce, the International Air Transport Association, the International Union of Railways, the International Road Association, the Transport Union, the World Customs Organization, the World Trade Organization, etc.

The mobility of teaching staff, international scientific cooperation within the framework of projects, as well as publications will ensure changes in the content of the Study programme and the use of teaching methods in accordance with the latest trends in the world, thus helping to achieve the defined study results.

The improvement of the qualification of academic staff takes place in different ways - both by implementing doctoral studies (from the Department of International Business, Transport Economics and Logistics), and in various professional development courses (reflected in the CV of each teaching staff). All doctoral students participate in ensuring the learning process during their studies by giving lectures, conducting practical classes or laboratory work.

2.3.3. Specify and provide the justification as to whether the degrees are awarded in view of the developments and findings in the field of science or artistic creation

The implementation of the Study programme is ensured by RTU academic staff from several structural units – professors and lecturers with a doctoral degree, each of whom is an expert in their field. If necessary, teaching staff from foreign partner universities and, for the implementation of more practical classes, professionals in the field are attracted to ensure the Study programme. During the study process, industry specialists and representatives of companies are also invited as guest lecturers, who could provide specific knowledge and share experience within the framework of the relevant study courses.

The academic staff elected by RTU is responsible for the content and creation of study courses. Under the guidance of the director of the Study programme and the responsible teaching staff, a team of teaching staff works

on the implementation of the study course, which can attract industry professionals, doctoral students, guest lecturers.

The qualification of all teaching staff involved in the implementation of the Study programme fully complies with the conditions for the implementation of the Study programme and the requirements of regulatory enactments, ensures the achievement of the objectives of the Study programme and the corresponding study courses and study results. There is a constant improvement of the qualifications of teaching staff, as well as the improvement of their methodological and scientific developments.

Both the insights gained in various previous and future studies, as well as the models developed in them, as well as the experience gained in cooperation with international cooperation partners, form the basis for training students on the issues of compiling and solving smart energy system optimization tasks, which are closely related to the current scientific developments and current needs of the industry. To develop an in-depth understanding, students will have to independently compose and solve an example of a specific task for optimizing the energy system within the framework of their study work. In turn, lectures and practical works will include work with computer programs (e.g. PSPP, MATLAB, Excel), implementing various optimization task solving techniques (e.g., linear, nonlinear, dynamic programming, Monte Carlo method, etc.). The teaching staff has gained significant experience in the practical application of these methods, solving in cooperation with the industry various topical tasks of optimization of the energy system, such as optimization of hydroelectric power plant modes, optimal selection of aggregates, modeling of electricity market operation and consumption flexibility in conditions of uncertainty, etc.

The high demand for transport and logistics specialists in Latvia and abroad, as well as the globally growing topicality of scientific research in the field of transport and logistics, put forward ever newer requirements in relation to the contribution of the implementation of the Study Programme as a basic factor of sustainable development and excellence. Particular attention in this regard should be paid to scientific research. Namely, it is more concerned with the content, organisation and practical implementation of master's and doctoral study programmes, and fully complies with the objective of RTU and the study field to ensure science-based studies, as a result of the acquisition of which students would be able to fully implement sustainable management of state, local government institutions, various types of enterprises, as well as ensure the development of society, education and business management in accordance with international, Latvian state and public interests, and the level of scientific progress. At the same time, students in graduate studies also:

- are involved in research work during the development of diploma (master's) thesis, as well as using the opportunity to work in research projects in case of availability of appropriate funding (for example, in a competition for research projects of RTU teaching staff and students);
- students have the opportunity to voluntarily participate in research conducted by the academic staff of the Institute of International Economic Relations and Customs as research participants, thus getting to know the research process better.

In addition, it should be noted that during the reporting period the qualitative and quantitative indicators of research activity are sufficiently high, thus

ensuring the sustainability of the development of the Study programme. The main focus is on the publication of scientific articles in the publications included in the SCOPUS and Web of Science databases, because it is these publications that provide an opportunity to obtain more funding for further research and contribute to the effective functioning and development of the Study programme. Lecturers of the Study programme use the research results and insights of both their own and colleagues in teaching courses, referring to them and linking them with other international studies and insights. I.e., scientific research is aligned with the study process and its implementation contributes to:

- Latvia's progress towards a technology-oriented and knowledge-basedchrome: https://www.pkc.gov.lv/sites/default/files/inline-files/NAP2027_apstiprin%C4%81ts%20Saeim%C4%81.pdf (in Latvian);
- the provision of higher education according to the national concept: http://www.aip.lv/informativie_zinojumi_5.htm (in Latvian);
- orientation towards the development of innovative engineering industries: https://www.em.gov.lv/lv/media/10258/download (in Latvian);
- the creation of opportunities for the use of science-intensive technologies in sectors of national importance and high added value: https://likumi.lv/ta/id/322468-par-zinatnes-tehnologijas-attistibas-un-inovacijas-pamatnostadnem-20212027-gadam (in Latvian).

The award of the professional master's degree is based on the achievements and insights of the Telematics and Logistics sectors of the Construction and Transport Engineering sectors, Water Transport and Infrastructure, and Land Transport sub-sectors. Master theses and study papers are being developed on problems important for the industry.

An essential component of the master's thesis is a scientific article in English about a study analysed in the master's thesis. The essence of a scientific article is to analyse the achievements of the field of science on the topic being studied, to point out unresolved or incompletely addressed issues, putting forward and describing your research method and the research technology used, as well as to describe and analyse results that are impossible without relying on the latest achievements and insights of the field of science.

The Study programme is currently the only one in Latvia, and there are only a small number of similar programmes in the international education area. The competitiveness of graduates of the Study programme is assessed as very high. The content of the Study programme reflects the development trends of the industry and ensures the preparation of specialists in changing socio-economic conditions. Constantly changing technical progress contributes to the demand of young specialists familiar with new, modern technologies in medicine in enterprises and institutions. Graduates of the Study programme have highly developed research skills. The competitiveness of the Study programme is confirmed by the fact that, according to the SRS data available to the RTU administration, all graduates are employed, most of them work in the fields of transport and logistics. The content of the Study programme is updated in accordance with the industry, labour market and research development trends. The Study programme is improved taking into account the

results of student surveys, as well as the recommendations of employers. The involvement of professionals in the field in the study process contributes to the formation of students' understanding of the principles of operation of various medical equipment.

The award of a professional master's degree is based on the requirements specified in regulatory enactments and the profession standard "Supply Chain Manager" (https://registri.visc.gov.lv/profizglitiba/dokumenti/standarti/2017/PS-147.pdf) (in Latvian). According to Section 59 of the Law on Higher Education Institutions ([https://likumi.lv/ta/id/37967-augstskolu-likums)](https://likumi.lv/ta/id/37967-augstskolu-likums) (in Latvian), it is stipulated that "upon completion of an accredited higher education programme of the relevant cycle, a master's degree and a seventh-level professional qualification may be obtained, for which a diploma of master's and professional qualification is issued".

Thanks to close cooperation with industry associations and the Ministry of Transport of the Republic of Latvia, its management and RTU teaching staff, the Study programme fully ensures the acquisition of knowledge specified in the profession standard.

In turn, the duration and content of the Study programme is based on the requirements referred to in Cabinet Regulation No. 305 *Regulations Regarding the State Standard of Second Level Professional Higher Education* (https://likumi.lv/ta/id/342818-noteikumi-par-valsts-profesionalas-augstakas-izglitibas-standartu) (in Latvian) regarding the amount of the study programme, the amount of contact hours, the mandatory content, as well as the basic principles for the acquisition and assessment of the Study programme (see Annex 3.8.).

2.4. Implementation of the recommendations received in the licensing of the study programme

2.4.1. Assessment of the fulfilment of the plan regarding the implementation of the recommendations provided by study programme licensing experts and the assessment of the impact of the given recommendations on the study quality or the improvement of the study process within the study programme

Annex 3.6. reflects the implementation of the recommendations of licensing experts. In accordance with the recommendations of the experts, the name of the Study programme was changed to "Logistics and Supply Chain Security", as well as work began on the involvement of teaching staff in the implementation of projects. At the time of submitting the accreditation documents, the following project applications in the field of logistics have been submitted: 1) Erasmus+ project Train4RailBaltica; 2) Connecting Europe Facility in the project "Cross-Border Operational Digital Platforms for Energy and Transport". Work is also underway to increase the number of publications by academic staff (see Annex 3.19. for information of academic staff publications).

3. The list of annexes

Annex	No.
Statistical data on the students since the start of the study programme implementation	3.1.
Basic information on the teaching staff involved in the implementation of the study field	3.2.
Confirmation of the higher education institution/ college that the teaching staff members to be involved in the implementation of the study programme have at least B2-level knowledge of a related foreign language according to European language levels (see the levels under www.europass.lv), if the study programme or any part thereof is to be implemented in a foreign language, or at least B2-level knowledge of the Latvian language, if the study programme or any part thereof is to be implemented in the Latvian language, and a teaching staff member has not acquired the secondary or higher education in the Latvian language	3.3.
Biographies of the newly recruited academic staff members	3.4.
Statistical data on the incoming and outgoing mobility of the academic staff	3.5.
Review of implementation of recommendations	3.6.
Information about the improvements made	3.7.
Assessment of the compliance of the study programme with the State Education Standard	3.8.
Assessment of the compliance of the study programme with the Professional Standard	3.9.
Curriculum of the study programme for all intended forms of implementation of the study programme	3.10.
Sample of study agreement	3.11.
Sample of the diploma to be issued for the acquisition of the study programme	3.12.
Document confirming that the higher education institution/ college will provide the students with the options to continue the acquisition of education in another study programme or at another higher education institution/ college (a contract with another accredited higher education institution/ college), in case the implementation of the study programme is discontinued.	3.13.
Document confirming that the higher education institution/ college guarantees to the students a compensation for losses if the study programme is not accredited or the licence of the study programme is revoked due to the actions of the higher education institution/ college (actions or failure to act)	3.14.

and the student does not wish to continue the studies in another study programme	
Study programme comparison with other study programmes	3.15.
Decision of the Senate "On the procedures for the organization of internships at Riga Technical University"	3.16.
Basic information about library provision for students	3.17.
Methodological guidelines of study programme	3.18.
List of academic staff publications	3.19.