



Curriculum

Program title	Transport Logistics
Qualification/academic degree to be awarded:	Master in Transport Logistics
Faculty name	Faculty of Technical Engineering
Program Manager / Administrators:	Teimuraz Kochadze , Professor
Duration / volume of the program (semester, number of credits):	➤ Program Duration - 4 semesters ➤ Volume - 120ECTS credits:
Language of instruction:	Georgian
Program development and renewal dates:	Authorization Council resolution №61, 07.09.2018 Academic Council resolution №5 (23/24), 14.09.2023
Prerequisites (requirements) for admission to the program:	
Entrants to the master's program must have a state document confirming the bachelor's academic degree (in transport, business administration, informatics and other related fields) and a document of passing common master's exams for Georgian citizens (or an equivalent document for citizens of foreign countries in case of relevant agreements between states) which gives right to pass the entrance exam in the chosen specialty at the corresponding accredited master's program of any authorized university.	
Program aims:	
The aim of the program is to train a specialist who is expected to provide advanced, fundamental and professional work in the field of transport, including scientific-research, design, production-technological, organizational-management and pedagogical activities. The program provides the training of specialists with a master's degree in transport logistics, whose main goal of professional activity is to ensure the safe and sustainable functioning of individual links of the unified logistics chain of supplies in a specific business environment using new technologies.	
Learning Outcomes (General and Sectoral Competencies):	
Knowledge and understanding:	The graduate is expected: ➤ To have a deep systematic knowledge about forecasting the development of socio-economic and organizational processes in transport-logistics systems and be able to perceive them critically. ➤ To be aware of the latest achievements of the logistics management of a single supply chain, which includes the process of generating the methods necessary to solve the problems related to the attraction of freight and passenger flows, as well as the development of original ideas for identifying the accidents that occur in the transportation process and setting the ways to overcome them. ➤ Knowledge of the innovative principles of intelligent transport systems modeling creates a sustainable basis for forecasting current events in technical-intelligent systems, for their qualitative and quantitative analysis.
Skill	The graduate is expected: ➤ To describe in detail the mechanisms of the parameters and criteria of the market model of transport services, the techniques and technology of transport process management, the specifics of the generation of demand for safe transport shipments. ➤ To choose independently original ways of solving complex technical-economical and safe traffic problems and outline effective criteria for their realization, based on the generalization of logistics management of the past and current period of the transport company. ➤ To organize risk management, control and assessment of risk management effectiveness in the transport business environment; ➤ To be able to work out options for management decisions and select the optimal option based on the criteria of socio-economic efficiency of transportation and environmental and road traffic safety.
Responsibility and autonomy	The graduate is expected: ➤ To manage business processes with professional responsibility and appropriate degree of autonomy in a rapidly changing environment of transport shipments; ➤ To adhere to the rules of professional and/or academic behavior and ethical principles, objectively evaluate his/her own and others' actions; ➤ To take responsibility for adequately evaluating and understanding his/her own learning

outcomes in order to achieve high efficiency of his/her activities as well as to plan autonomously further training and professional development.

Teaching methods:

Presentation of theoretical material, question-and-answer session, discussion, research group, debate, business games, business simulations, group discussions, analysis of practical situations and project development.

Program structure

The program consists of two concentrations; each of them contains:

- a) basic courses - 55 - 55 credits;
- b) general compulsory courses and practices for both concentrations - 25 credits;
- c) elective courses for both concentrations - 20 credits (10 credits are chosen);
- d) compulsory master's thesis for both concentrations - 30 credits.

See Appendix 1.

Student Knowledge Assessment System

The assessment system used in the educational program is in line with the Order No. 3 of the Minister of Education and Science of Georgia of January 5, 2007 "Rules for calculating credits for higher education programs" (Order No. 105/N of December 29, 2021) and the Resolution of the Akaki Tsereteli State University Academic Council of September 16, 2022 #6 (22/23) "On the approval of the student evaluation system at Akaki Tsereteli State University". (Amendment to the Resolution of the Academic Council of September 15, 2017 No. 5 (17/18))

Credit can be obtained only after the student has achieved the learning outcomes planned by the syllabus, which is expressed by one of the positive evaluations provided for in subsection "a" of paragraph 6.

It is not allowed to assess the learning outcomes achieved by the student once, only on the basis of the final exam (the exception is the assessment of the master's thesis, which is done once, in accordance with the resolution of July 15 #38(20/21) of the Academic Council of the ATSU "On the procedure for the completion and evaluation of a master's thesis).

The assessment of the student's work in a certain ratio includes:

- a) midterm exam assessment;
- b) final exam assessment.

The maximum assessment score of the training course is 100 points. Out of the total evaluation score of the educational program component (100 points), the share of the mid-term evaluation is 60 points, which, in turn, includes the following evaluation forms:

- Student activity during the academic semester (includes various assessment components) - no more than 30 points;
- midterm exam - not less than 30 points.
- final exam - 40 points.

The right to pass the final exam is given to a student whose minimum competence level in the components of the midterm assessment is at least 18 points in total.

The minimum competence threshold of the assessment received by the student on the final exam is 15 points.

The students grading scheme includes,

a) five types of positive assessment:

- (A) Excellent – 91-100 points.
- (B) Very good – 81-90 points.
- (C) Good – 71-80 points.
- (D) Satisfactory – 61-70 points.
- (E) Acceptable – 51-60 points.

b) two types of negative assessment:

(FX) Student could not pass examination – 41-50 point that means that she/he is required to work more for passing the exam, and that she/he is entitled to retake exam only once after individual work;

(F) failed to pass –40 points and lower that means that the work done by student is not sufficient and she/he has to redo the course.

Within the course component of educational program, in case of FX assessment, a makeup exam is appointed no later than 5 days since the announcement of the examination results. The number of points received in a makeup examination is a final assessment score and is not added to the final assessment received by student, and it will be reflected in final assessment of the training component. With account for the assessment received in the educational component, in case of final assessment score 0-50 points, student is assessed at F-0 point.

Additional criteria for assessing student achievement in the course are defined in the appropriate syllabus.

The master's thesis is evaluated once (with a final assessment), with a 100-point system, according to the rule of execution and evaluation of the master's thesis Akaki Tsereteli State University, approved by the resolution of the Academic Council of the Academic Council of the Academy of Sciences #38(20/21) of July 15.

Fields of employment:

- Transport, carrier, forwarding and transport logistics companies engaged in uni, multi, intermodal and combined transportation of cargo and passenger flows;
- The vehicle brand service and round-the-clock service centers, leasing, dealer and distribution enterprises;
- Fuel and lubricants, material distribution companies, petrol stations;
- Patrol police and traffic accidents expert services;
- Transport insurance companies;
- City transport planning and traffic organization departments;

- Service agencies of the Ministry of Internal Affairs;
- Transport regulatory commissions;
- Pedagogical activity in educational programs in the field of transport.

Supporting conditions / resources necessary for learning

1. A constantly updated book fund of the scientific-technical library of the university;
2. Auxiliary methodical materials created by teaching staff working in the field of transport;
3. Technological subject-room - laboratories of the engineering-technical direction (including transport);
4. Computer centers provided with modern equipment;
5. Auditoriums for lecture and practical classes, provided with equipment corresponding to modern methods of multimedia teaching;
6. The opportunity to familiarize, review and analyze professional Internet sites for all interested academic students;

Industrial training/industrial practice:

The bases of students' practice are represented by:

- Company Tegeta Motors-Kutaisi;
- LLC Sofmari (city of Poti)
- LLC Logistex (city of Poti)
- LLC Sovtransauto, (city of Poti)
- Batumi and Poti ports and terminals;
- Kopitnari airport.
- DHL company.

with which relevant memorandums and agreements have been signed.



საქართველოს სახელმწიფო უნივერსიტეტი

Study Plan 2023-24

Name of the Program: Transport Logistics

Qualifications to be awarded: Master in Transport Logistics

	Course title	Cr	Workload in hours				l/pr/lab/gr	Semesters				Prerequisite for admission
			Total	Contact hours		Ind		I	II	III	IV	
				Class hours	Mid term and final exams							
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Concentration 1. Supply chain management											
1.1	Transport and logistics complexes - I	10	250	90	2	158	30/30/30/0	10				
1.2	Transport and logistics complexes - II	10	250	90	2	158	30/30/30/0		10			1.1
1.3	Transport services market	5	125	45	2	78	30/15/0/0	5				
1.4	Multimodal transportation	10	250	90	2	158	30/30/30/0			10		1.2, 3.3
1.5	Transport logistics	10	250	90	2	158	30/30/30/0			10		1.2, 1.3
1.6	Outsourcing in transport and logistics systems	10	250	90	2	158	30/30/30/0		10			
1.7	Master’s thesis	30			2						30	
	Totally	85										
2	Concentration 2. Intelligent transport systems in road traffic											
2.1	Route orientation navigation systems	5	125	45	2	78	30/15/0/0	5				
2.2	Theory of traffic flows	10	250	90	2	158	45/45/0/0		10			
2.3	Traffic simulation	5	125	45	2	78	15/30/0/0/		5			
2.4	Road conditions and traffic safety	10	250	90	2	158	45/45/0/0					

	Course title	Cr	Workload in hours				l/pr/lab/gr	Semesters				Prerequisite for admission
			Total	Contact hours		Ind		I	II	III	IV	
				Class hours	Mid term and final exams							
1	2	3	4	5	6	7	8	9	10	11	12	13
2.5	Automated road traffic control	5	125	45	2	78	15/30/0/0		5			
2.6	Comprehensive analysis of traffic accidents	10	250	90	2	158	60/30/0/0					
2.7	Information provision of the organization of road traffic	10	250	90	2	158	45/45/0/0	10				
2.8	Master’s thesis	30			2							
	Totally	85										
3	Compulsory courses for both concentrations											
3.1	Pedagogical psychology	5	125	45	2	78	15/30/0/0	5				
3.2	Experiment design and analysis	5	125	45	2	78	15/30/0/0		5			
3.3	Mathematical modeling methods in logistics management	5	125	45	2	78	15/30/0/0	5				
3.4	Scientific-pedagogical practice	5	125	45	2	78	0/45/0/0		5			
3.5	Scientific-research (professional) practice	5	125	45	2	78	0/45/0/0			5		
	Totally	25										
4	Elective courses (5 credits in I semester and 5 credits in II semester)											
4.1	Interaction of different types of transport	5	125	45	2	78	15/30/0/0	5				
4.2	TRACECA and Eurasian Transport Systems	5	125	45	2	78	30/15/0/0	5				
4.3	Transport and logistics management	5	125	45	2	78	15/30/0/0			5		
4.4	Vehicle diagnostics and service	5	125	45	2	78	30/15/0/0			5		
	Totally	20										
In total		120										