



საქართველოს ტექნიკური უნივერსიტეტი
GEORGIAN TECHNICAL UNIVERSITY

Approved by
Resolution № 1234 of the
Academic Council of GTU
dated July 16, 2014

Amended by
Resolution № 01-05-04/..... of
the Academic Council of GTU
dated June, 2023

Bachelor's Educational Program

Program Title

ლოგისტიკა

Logistic

Faculty

სატრანსპორტო სისტემებისა და მექანიკის ინჟინერიის ფაკულტეტი

Faculty of Transports Systems and Mechanics Engineering

Program Head/Heads

Professor Natia BUTKHUZI

Qualifications to be awarded and the extent of the program in terms of credits

Engineering Logistics Bachelor

Will be awarded by combining the main specialty and free components in the educational program, if at least 240 credits are completed

Language of Teaching

Georgian

Prerequisite for admission to the program

Only the person with a state certificate confirming complete general education or a document equivalent to it, has the right to study at the bachelor's level who will be enrolled in accordance with the procedure established by the legislation of Georgia.

Program Description

The bachelor's educational program "Logistics" was created in the field based on the experience of both local and foreign universities and taking into account the requirements of the labor market.

The bachelor's educational program "Logistics" is compiled by the European Credit Transfer System (ECTS) system, 1 credit is equal to 25 hours, which includes both contact and independent work hours. The distribution of credits is presented in the curriculum. The program lasts 4 years (8 semesters) and includes 240 credits.

To be awarded the "Bachelor of Engineering Logistics" academic degree, a student must accumulate at least 240 credits, which ensures the achievement of the program objectives and the learning outcomes required for the main qualification at the corresponding (6th) level of the bachelor's degree descriptor of the Higher education qualifications framework.

The educational program is made up of education courses (234 credits) and free components (6 credits) corresponding to the main field of study.

The program includes elective education courses with a volume of 27 credits, including elective humanities - 3 credits, elective foreign language courses - 20 credits, elective education courses of the specialty - 4 credits, free components - 6 credits. The program also includes industrial internship (27 credits) and the completion of a Bachelor's Thesis (10 credits).

The student chooses a free component from the education courses available within the program, in order to expand his/her horizons in the field (issues) of interest to him/her.

"Instructions for managing the educational process at the Georgian Technical University" provide information on the organization of the educational process, evaluation of student achievements, educational and financial agreements with students, and the accumulation of credits by students. The relevant document is posted on the website of GTU.

Program Objective

The objective of the bachelor's program corresponds to the mission, objectives and strategy of the Higher Education Institution and the faculty, the requirements of the local labor market and the trends of the international market, is focused on the preparation of "Engineering Logistics" Bachelor who will contribute within the scope of their competence:

Objective 1. To introduce the basic principles of logistics in production;

Objective 2. In the planning of internal transport processes;

Objective 3. To identify logistical problems and find ways to solve them;

Objective 4. In the planning and operation of transport and logistics systems;

Objective 5. In planning and project management of warehouse systems;

Objective 6. In the collection of technical and economic data of warehouse and distribution centers and analysis of situations;

Objective 7. In the calculation of investments and operating costs;

Objective 8. In planning and implementation of logistic processes.

Learning outcomes/competences (general and professional)

Describes the technical systems related to logistics services, presents the elements of statistical accounting, the latest aspects of mathematical processing of statistical data and the use of this information in management;

Connects some outstanding methods of logistics systems proven and used in practice for effective management of specific activities of the enterprise (firm);

Discusses the technologies of implementation of works related to the development and implementation of logistics infrastructure;

Explains the complex problems in various fields of production and transport logistics, as well as services, and ways of implementing relevant technologies;

Lists data specific to the field of logistics in the direction of cargo, cargo handling and warehousing systems, intermodal transport, information technology and legal issues in logistics.

In practice, **uses** the resources of information technology and automated systems in logistics to achieve work

objectives in accordance with the instructions of the supervisor;

Collects data on complex issues of logistics systems and networks, production and management of logistics operations, operation of logistics infrastructure and logistics controlling systems;

Analyzes the possibilities of alternative ways of solving specific problems in the field of logistics, prepares a written report on the obtained results and transmits information to specialists and non-specialists in Georgian and German languages;

Uses information and communication technologies in the field of logistics in the environment of modern computer programs.

Assesses own learning process in a comprehensive and multifaceted way, determines the needs of further learning. Contributes to the safe management of production processes in the field of engineering logistics.

Methods of achieving learning outcomes (teaching-learning)

Lecture Seminar (group work) Practical Laboratory Practice Course work/Project Consultation Independent work Bachelor's Thesis

In the educational process, depending on the specifics of a particular study course program, the following teaching-learning methods are used, which are given in the relevant education course programs (syllabi):

Discussion/debate; group (collaborative) work; problem-based learning (PBL); heuristic; inductive; deductive; written work; analysis; case studies; demonstration; verbal or oral; explanatory; action-oriented learning; Project development and presentation.

Student's Knowledge Assessment System

The student's knowledge is assessed on a 100-point scale.

Positive grades are:

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

Negative grades are:

- **(FX)** - failed - 41-50 assessment points, which means that the student needs more work to pass and is allowed to take the additional exam once with independent work;
- **(F)** - Failed - 40 evaluation points and less, which means that the work done by the student is not enough and he/she has to study the subject again.

In case of receiving FX in the component of the educational program, GTU will schedule an additional exam at least 5 days after the announcement of the results of the final exam. The number of points obtained in the final assessment is not added to the grade received by the student at the additional exam. The grade obtained at the additional exam is the final grade and is reflected in the final grade of the educational program component. In case of receiving 0-50 points in the final evaluation of the educational component, taking into account the evaluation received at the additional exam, the student will be assigned an F-0 score.

The right to pass the final exam is granted to a student who passed the minimum competence limit (accumulated at least 30 points) in the intermediate assessment. The dates of the mid-semester exam and final/supplementary exams will be specified in the Rector's order on the semester schedule.

Detailed information about the "rules for conducting and evaluating the internship of students of the Georgian Technical University " and the "rules for the execution of the Bachelor's research project/thesis" is provided on the website of GTU.

Fields of Employment

Bachelor of Engineering Logistics - Graduates with relevant qualifications will be employed as: managers of average status and specialists in transport qualification logistics companies, ports, intermodal terminals, logistics centers, warehouses and distribution centers, trading and manufacturing companies and any other type of organizations that have supply chain management operations. Also, in relevant government organizations involved in transport and logistics policy planning and implementation in the following positions: Logistics Manager, Transport Manager, Supply Chain Manager, Procurement Manager, Demand Planning Specialist, Distribution Manager, Warehouse/Distribution Center Manager.

Opportunities for continuing education

Master's degree educational programmes

Human and material resources needed to implement the program

The program is provided with appropriate human and material resources. Detailed information is provided in the attached documentation.

Number of attached syllabi: 63