



Bachelor's Educational Programme: Organization and Management of International Traffic

Contact person: Ketevan Goletiani, Dean
Tel.: 579080708 , e-mail: k.goletiani@bntu.edu.ge

Brief description of Bachelor's degree educational programmes:

Programme name:	Organization and Management of International Traffic
Track:	Engineering - 04
Specialty:	Transport - 0407
Qualification to be conferred:	Bachelor of transport
Higher education stage:	I Stage, Bachelor's programme
Teaching language:	Georgian
Program volume by credits:	240

Admission to programme: In accordance with the effective Law of Georgia– complete general education; Enrollment at program is made on the basis of Unified National Exams (ranking document) except for the cases, provided for by the Law of Georgia On Higher Education (enrollment without Unified National Exams shall be made in special cases, specified in accordance with the rules, specified under the Law). In accordance with the effective Law of Georgia, continuation of study by this Bachelor's program (hereinafter referred to as - Program) is possible by mobility for BNTU and other higher educational institution students of the same higher education stage educational programs (compatibility of study outcomes already achieved by students with this program shall be established in compliance with the regulations, relating to the recognition of education (credits), effective in BNTU in accordance with the Law of Georgia).

Programme objectives: Training of highly skilled field experts oriented on practical work, able to meet competition requirements existing in Georgian and international educational and labor markets, having industry-specific competencies, broad theoretical knowledge of modern field of transportation, understand specificity of profession and duties to be performed, practical skills required for professional activity by using of which they will be able to organize, plan and manage transportation and technological processes, determination, analysis and evaluation of problems in various areas of transportation industry, understand and solve complex issues; As well as, the objective of programme is to form competencies on the basis of which an alumni will be able to continue study at next stage of academic higher education (Master's programme), realize competencies and skills in professional and public activity and career progression.

Learning outcomes:

<p>Knowledge and understanding <i>Deep knowledge of the field, which includes critical re-evaluation and understanding of following complex matters.</i></p>	<p>Alumnus has deep knowledge, which includes critical re-evaluation and understanding of following complex matters:</p> <ul style="list-style-type: none"> • Theoretical basics, peculiarities and interrelation of aspects specific to transportation and logistics field; • Modern economic global map; definition of natural conditions and resources; • Main elements of management of various transportation means, transportation organization and technological processes; types of transport and their interaction, equipment and economy of various transport enterprises, principles of management of transport systems;
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	<ul style="list-style-type: none"> • Cargo classification, cargo examination methods, standardization of packing and wrapping materials, cargo marking; transportation features and chemical and physical properties of liquid, bulk and mixed cargo and gases; specific nature of cargo. Obligation to observe rules of safe transportation. • Functions and methods of transport management organization; • Basic principles, concepts and systems of logistics; • Selection criteria of various transports for particular transportation. Main principles of warehouse operations; • Types of transportation, freight and customs declarations and other forwarding documents; • Organization principles of technological processes on railway transport, the essence of mixed and international transportation, organization and management principles of cargo transportation and commercial activity; operating procedures; rules of keeping of shipping documentation; • Classification and types of vessels according to their mission, ship structures, designation and position of ship compartments, sea port management principles; • Formation principles of vehicle fleet, measurement means of work, performance characteristics of motor vehicle, basics of formation of vehicle fleet, modern aspects of safe traffic; • Organization principles of air transportation of passengers and cargo, principle technological diagrams of passenger service; • Schemes and channels of distribution of municipal transport, functions of municipal transport, methods of increasing in carrying capacity of municipal traffic networks, methods of formation of transportation of urban population; • Main terms and conditions of cargo sales contract; cargo insurance, responsibility for cargo transportation and delivery; INCOTERMS - International commercial terms – obligations of the seller and buyer; transportation conditions; export and import commercial documentation; general bill of lading; freight manifest; proform documentation; peculiarities of organization of general cargo transportation; types of contract of carriage by sea; commercial terms and conditions of single-trip charter; vessel hire; principles of organization of ship management; • Schemes and classification of joint nodes and mechanisms of lifting apparatus, motorized systems of loading-and unloading operations and technological schemes of handling, warehousing and transportation of lifting and transportation facilities; • Organizational principles of intermodal and multimodal transportation, rate structure during intermodal and multimodal transportation; • Management principles and methods of environmental activity at transportation, modern aspects of environmental safety; • Safety measures, safe operating conditions of devices and equipment, labor hygiene and basics of production aesthetics in transportation companies; • Ship's agency service, nomination of an agent, types of agent; port entrance terms and conditions; ship stevedore service standards; main conditions of organization of supply of a ship with foodstuffs; functions of classification society; bunkering procedures; • Specific aspects of marine insurance. Rights and obligations of parties of contract.
<p>Ability to use knowledge in practice <i>Usage of industry-specific and other prominent methods for the purpose of solution of problems, implementation of research or practical-type projects in accordance with pre-determined instructions.</i></p>	<p><u>Alumni is able to:</u></p> <ul style="list-style-type: none"> • Plan traffic flows and organize transportation; • Make cargo marking, securing, evaluate physical and chemical and weight and bulk properties, select vehicle, route and provide transportation; carry out cargo storage, warehousing and placement taking into consideration of special conditions; provide cargo undamageability; inspect and prepare transportation means; use his knowledge about international regulations, standards, codes and recommendations on transportation of hazardous cargo; apply international requirements during transportation of hazardous cargo; • Plan, manage, coordinate and control material flows; make classification of logistics systems; • Determine modes of transportation logistics systems, make optimization and practical use of methods; • Execute transportation and other forwarding documents, cargo and customs declarations and other documentation; • Manage technological processes on railway transport (maneuvering, train formation, registration of station operation, organization of passenger carriage), organize commercial activities (execution of cargo documentation, inspection and validation of bill of lading, determination of weight of cargo to be transported and calculation of transportation costs, carrying out of revision works); • Organize road haulage (route planning, drawing up of cargo plan using Packer 3D software, determination of transportation works and productivity); • Organize air transportation (selection of route, calculation of air transportation costs, execution of commercial documentation); • Organize sea transportation (drawing up of technological maps of loading and unloading; carrying out of loading operations for various cargo, planning of loading and unloading operations, planning of loading complex). Carry out commercial activity (execution of cargo trade contract and fulfillment of corresponding requirements, calculation of lay days; calculation of dispatch and demurrage, collection of contract documents, organization of line shipping, calculation of block-to-block hours and freight, calculation of lay days according to charter, registration of port entry and exit of a ship); • Plan, organize passenger carriage and manage processes (determination of optimum density and traffic capacity of municipal transport network, calculation of passenger flows, PTV VISSIM; building of mathematical and simulated model of municipal transport network using PRV VISSUM software);

	<ul style="list-style-type: none"> • Use FIATA documents used in freight forwarding; corresponding knowledge and understanding and use of international transportation conventions; • Determine price and cost value of transportation, calculation transportation costs, determine time and distance coefficient, calculate waiting time, evaluate cost-effectiveness for various transport; • Select lifting machines and devices with the lifting capacity corresponding to loading and unloading operations and determine corresponding number of loading and unloading machines and devices and points, operate and evaluate technical conditions of lifting and transportation means; • Plan intermodal and multimodal transportation, manage and control process, carry out simulation positioning and build simulated model; • Carry out environment-friendly transportation activity (provide reduction of impact of noise and vibration caused to atmosphere by transportation, prevention of environmental pollution during sea transportation and taking of pollution prevention measures in accordance with international requirements and standards, application of main requirements of sea pollution prevention); • Provide safe conditions during operation of transportation means and devices (observance of safety regulations, management of safety systems on transport, labor protection and provision, usage of general provisions of safety regulations and their application in practice); • Read, understand and interpret English materials relating to transportation and logistics field; • Select and use mathematical tool and relevant software corresponding to the task as a result of combination of theoretical and practical aspects of obtained knowledge, construct, read, review, interpret and use drawings, schemes, diagrams etc. of various complexity, consider economical and geographical factors of transportation, use basic economic principles and laws in practice, carry out market segmentation and select target segments, evaluate competitiveness, develop marketing communications; carry out business organization, management, assessment and risk identification; determine insurance factors of cargo and transport during transportation, work in team, establish communication, understand and properly evaluate relationships established in working environment, influence of personal motivation on person's behavior, their attitude to work, personal qualities and acts on the basis of individual behavior, team work, formation of organizational culture, knowledge of complex issues of interpersonal communication, comparing different opinions, identification differences and like-mindedness and formation of overall opinion taking into consideration of others views for the purpose of problem solving and conflict resolution.
<p>Ability to make conclusion <i>Collection and interpretation of industry-specific data, as well as analysis of abstract data and/or situations using standard and other prominent methods, formation of justified conclusion;</i></p>	<p><u>An alumnus is able to:</u></p> <ul style="list-style-type: none"> • identify problems arose during transportation process and analyze situation, collect and interpret information and data, evaluate possible risks and environmental impact, and make justified conclusion including regarding provision of safety; • collect and interpret information about cargo, analyze problems arose during cargo loading and unloading and warehousing and make corresponding decisions within the scope of his competence for the solution of problem; • analyze execution procedures applied in practice, evaluate calculations of import taxes, making decisions regarding execution of declarations and selection of commodity transaction; • determine main characteristics of railway station and register and analyze railway operation; • consider specificity and peculiarities of particular problem in case of claims and complaints during railway transportation, identification and description of causes and proper evaluation of their significance, examine and analyze current processes and situations, collect, process, evaluate and analyze information and data using standard and some nonstandard methods, evaluate causes and outcomes, understand their interrelation, formulate expected outcomes, determine, assess and describe possible risks, form justified conclusion, select effective ways for problem solution, offer reasoned recommendations, make decision within the scope of his/her competence for the purpose of problem solution; • Identify and assess problem arose during air freight; • Analyze cargo operations in sea ports, evaluate transportation methods and organization processes of various cargo, identify problems, form and justify conclusion; • collect, analyze and define data, information and documents for the purpose of commercial management; evaluate contract/agreement and make corresponding justified conclusion; collect data and information relating to the determination of cargo amount, calculation of lay days, determination of income, profitability, time charter equivalent, process and analyze them using standard methods, evaluate results and calculate voyage time, make calculations during lay days according to charter; calculate ship's stock; calculate voyage stock and develop cargo plan on the basis of observations, analyze obtained data and make justified conclusion on port selection to reduce costs for bunkering; • Collect and interpret information about economic potential of transport, profitability and productivity of transportation, plan financial resources and evaluate effectiveness; • Analyze international transportation operations during execution of international economical contracts, collect and analyze information relating to particular issue and problem, make justified conclusion on issues arose during freight forwarding; • Forecast movement of urban population and distribution of passenger flow according to transportation network. Analyze situations during operation of

	<p>municipal transport and make justified conclusion;</p> <ul style="list-style-type: none"> • Offer recommendations within the scope of his/her competence on the basis of justified conclusion for the purpose of solution of problem arose during operation of vehicles; • Offer justified recommendations regarding selection of types of transportation during intermodal and multimodal transportation; • Examine and analyze situation for the purpose of prevention of possible environmental impact caused by transportation, understand cause-effect relationship, offer recommendations within the scope of his/her competence on the basis of justified conclusion for the purpose of solution of problem. • evaluate environmental impacts in emergency situations; analyze situation, forecast possible sequence of events, determine existing and possible risks, evaluate effectiveness of safety provision measures, make and justify conclusions; • Analyze data and information regarding work done, identify problems, evaluate work done and make justified conclusion.
<p>Communication skills <i>Preparation of detailed written report on ideas, current problems and the ways of their solution and verbal communication of information to experts and non-experts in Georgian and foreign languages, creative application of modern information and communication technologies</i></p>	<p><u>Alumnus is able to</u></p> <ul style="list-style-type: none"> • communicate in writing and orally: receive and deliver information in writing and verbally, form his/her opinion about existing problem and ways of its solution, properly use grammatical and lexical constructions in English (B2 level), Russian (A2) and Turkish (A2), and effortlessly communicate with English native speakers; independently conduct talks, read about issues relating to transportation and logistics, clearly express his/her opinion about various matters; independently and quickly read various texts; use various sources of information in Georgian and English; • use modern IT and communication technologies: use of software and systems, creation of graphical images using software, graphic provision of engineering projects, processing of information, preparation of reports and presentation etc. work with electronic documents, tables and data bases; protect data, use IT and communication technologies for the purpose of enhancement of quality of work, solution of problem/particular task and establishment of contact.
<p>Learning ability <i>Logical and through evaluation of own study process, determination of future learning needs.</i></p>	<p><u>Alumni is able to:</u></p> <ul style="list-style-type: none"> • objectively evaluate his/her competencies achieved during Bachelor's programme; use various resources (IT and communication technology, Information sources, industry and special literature etc.) for the purpose of enhancement of skills; work out unknown issues with minimum assistance; • consider innovations in professional activity, understand necessity of life-long learning and personal development, evaluate his/her education process and establish needs of further education;
<p>Values <i>Participation in value forming process and motivation of their introduction.</i></p>	<p><u>Alumni has:</u></p> <ul style="list-style-type: none"> • understands importance of compliance with ethical standards and consideration of legal standards effective in the field of transport logistics, professional and personal responsibility, ability to evaluate his/her and others attitude to the values and motivation to contribute in introduction of new values.

Student Evaluation System

General rule of student evaluation

Level of achievement of learning outcomes by a student is evaluated by 100-points (max 100 points) system. Bachelor's educational program is composed of academic components and their evaluation includes two forms – interim evaluation (max 60 points) and final evaluation (max 40 points); minimum competency limit is fixed for both forms (stated in program component syllabuses). Assignment of credit in educational component using only one form of evaluation (interim or final) shall not be allowed. Final evaluation (grade point) of program component is a sum of grade points received in interim and final forms of evaluation (Grade point obtained as a broken number is rounded up to whole number in accordance with the rounding rule: 4 and less - and less – rounded down, 5 and more – rounded up). In accordance with the effective Law of Georgia, 100-points system of evaluation of students in BNTU allows 5 good and 2 bad evaluation marks.

Program components	max 100 points		Evaluation forms
Academic component: Academic courses Practice (work experience internship, training and sailing) Bachelor's thesis	100	60	Interim evaluation
		40	Final evaluation

Evaluation			max 100 points
Good grades			
1	Excellent	A	91 and more points
2	Very good	B	81-90 points
3	Good	C	71-80 points
4	Sufficient	D	61-70 points
5	Insufficient	E	51-60 points
Failing grades			
1	Did not pass	FX	41-50 points
2	Fail	F	40 and less

Fx grade means that student needs more work and he/she is allowed to pass the additional exam once again within the same semester by individual work; in case of Fx grade, additional exam is scheduled no later than within 5 calendar days after announcement of final exam results. Grade, received at additional exam is a conclusive evaluation and set forth in final evaluation of program component. In case of 0-50 points in final evaluation of program component, taking into consideration of points of additional exam, F grade (0 points) is assigned to a student. "F" grade means, that work done by a student is not sufficient and he/she shall restudy program component. Credit may be received only in case of one of the good grades in accordance with the Law.

Provision of educational programmes with material and technical resources

1. BNTU owned material and technical resources corresponding to ISO 9001:2015 International Standard, including the following:
 - Class rooms, computer classes, language, navigation, logistics etc. rooms; laboratories: chemistry and physics;
 - Library (book (printed and on electronic media), video- and audio - collections, visual materials, International Witherbys Library (e-library)).
2. Students shall undertake practical component provided for by programme curriculum in the following companies, with which the Teaching University has executed corresponding contracts: Batumi Autotransport Ltd., BATOS SHIPPING LTD (Agency, forwarding company), INFLOT BATUMI LTD (Agency, forwarding company), TERO MARITIME AGENCY LTD (Agency, forwarding company), Cargo Trans Group Ltd., Geo Trans Group Ltd. (forwarding company), Batumi Rail Group Ltd. (forwarding company), MRG Limited Ltd., Interloggeorgia Ltd. (forwarding company), MGL GEORGIA Ltd (transportation-logistics company).