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**Curriculum**

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| --- | --- |
| **Program** | Bachelor program – **Organization and Management of Transport and Logistics Systems**  |
| **Degree awarded** | **Bachelor of Engineering Science in Transportation** |
| **Faculty**  | **Faculty of Technical Engineering** |
| **Program coordinator/coordinators** | Jumber Chogovadze, Associate Professor  |
| **Length of the program (semester, ECTS)** | **Length of the program is 240 credits, comprises eight semesters**  |
| **Language of the Program**  | **Georgian** |
| **Program development and renewal date of issue** | Order No25, 16.09.2011 |
| **Program prerequisites** |
| Certificate of general education or the equivalent document. For citizens of Georgia – certificate of confirmation of passing the unified national exams (three compulsory exams – Georgian language, Foreign language and General skills, and one elective from the following subjects: Mathematics, Physics, Geography, History), which grants them student status, or the equivalent document for foreign citizens, in the case of the appropriate inter-state agreement.  |
| **Aim of the Program** |
| The program is aimed at training of highly-qualified specialist in the transport field, who is expected to be able: to ensure stable functioning and development of companies engaged in transportation activities, as well as to form communicative policy in this field that can be achieved on the basis of harmonizing the interests of the consumers of transport services (consignors and consignees) and traffic companies**Module 1.** According to the changes in the external environment, Bachelor’s degree holder is expected: to provide analysis, coordination and regulation of the activities of actors involved in the transport process; to study transport services market, its conditions, dynamics of transport demands, as well as to define the strategy of transport and logistics company in a competitive environment; to prepare suggestions on improving transport service packages; to take part in determining pricing policy, as well as to select the shortest and fastest multimodal transportation systems, taking into account technological factors involved in transport. **Module 2.**Bachelor’s degree holder is expected: to take part in developing and practical implementation of strategic and operative planninmg programs of services dealing with transport service and the organization of traffic safety; to describe and record road traffic accidents and take part in the process of their analysis; to provide observations on the intensity of traffic flows, work out recommendations on traffic signs, light signals or on sound changes in the regulatory parameters of road traffic and submit them to the senior structures with the purpose of organizing safe road traffic.  |
| **Learning outcomes (General and branch competences)**Holder of Bachelor’s degree in the field of Transportation Engineering is expected to be able: to apply professional knowledge to address problems arising at the medium and high management of the transport and logistics systems; to lead individual groups of people by working alone, as well as to assume his/her share of responsibility for effective delivery of works to be performed; to plan and carry out independently the experimental research works in a common field with the group; to describe the observation conditions and make justified conclusions during the process of modernization and operation of the transport and logistics systems; to develop methodologies and programs of operative management of the transport-technological systems; to design the simulation and mathematical models of the functioning of the transport systems and networks, as well as to provide technical justification of the decisions taken on the basis of them.  |
| **Knowledge and understanding** | Bachelor’s degree holder is expected: to have a broad knowledge of the purpose and description of the constituent elements of individual links of a single logistical chain, as well as about the technological processes occurring therein; to understand the essence and social importance of his/her future profession, as well as the main problems of those disciplines, which identify the particular areas of his/her activities in field of transport, and to see their interrelations in a whole system of knowledge; to be able to specify and critically analyze factors, in ensuring: **Module 1**. Stable functioning and development of transportation companies; knowledge of equipment and technologies required for organizing the travsport and logistics centers.  **Module 2**. Knowledge of the principles of the organization and management of transport services and safe road traffic.  |
| **Applying knowledge** | Bachelor’s degree holder is expected to be able to assess technical-intellectual systems and harmonize the interests of transport service companies and their consumers by selecting the optimal management methods. **Module 1**. In accordance with change in the external environment, Bachelor’s degree holder is expected: to provide operative analysis, coordination and regulation of the activities of actors involved in the transport process, in line with new challenges; to study transport services market, its conditions, dynamics of transport demands, as well as to define the strategy of transport and logistics company in a competitive environment, with the purpose of addressing the arising problems.  Bachelor’s degree holder is also expected to assess the demands of the consumers of transport services, capacities of transport companies, the specificity of the field of transport and the latest transportation technologies and taking maximum account of the organization principles, to achieve the highly-effective final result on the market of transport services. **Module 2**. Bachelor’s degree holder is expected to choose the modern technologies of studying and analyzing the road traffic accidents, as well as to use them to address practical prblems.  |
| **Making judgement** | Bachelor’s degree holder is expected to be able to set the goals and formulated the objectives, which are associated performing professional duties in the transport and logistics systems, as well as to make use of methods of the studied sciences. * + - * Bachelor’s degree holder is also expected: to carry out the project activities in the field of transport: to knowledgeable of the principles of systems analysis; to be bale to design and use the models for describing and diagnosing the vents, as well as, based on them, to draw up relevant conclusions on the effective functioning of the transport and logistics systems.
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| **Communication skills** | Bachelor’s degree holder is expected: to be able to carry out professional activities in the foreign-language environment; to have a culture of thinking and understand its general phenomena; to formulate properly, orally and in writing, the basic premises associated with the organization and management strategy of the transport and logistics systems; to have willingness of cooperation with colleagues and for teamwork; to be aware of problems relating to management of the technical-intellectual systems; to be able to organize job places for team members, find and take the effective measures of action under conditions of contrasting circumstances of managerial decisions; to formulate the principles of logistical management by using the modern information technology.  |
| **Learning skills** | Bachelor’s degree holder is expected: to be able to re-assess the experience gained in the case of the development of science and variable social practice; to re-analyze his/her own capacities and acquire new knowledge in the field of transport; to have methodical and psychological preparedness for working on the new projects, when changing the type and nature of his/her professional activities.  |
| **Values** | Bachelor’s degree holder is expected to understand, use and promote the strengthening of those ethical and legal standards, which regulate relations between people and their attitude towards the open society and environemhnt; to understand of capacities of modern scientific methods of cognition of society, as well as to be knowledgeable of them at a level required for addressing those problems, which have practical-applied content and arise when performing professional duties; to consider unacceptable plagiarism; to respect other’s opinion and require also respect for the creative view, written work or other private materials intended for various practical purposes.  |
| **Teaching methods** |
| Transferring theoretical materials, question-answer sessions, research group (collaborative teaching), debates, case plays, business simulations, group reviews, practical case studies and project development.  |
| **Structure of the Program** |
| The program’s volume is 240 credits,one credit – 25 astronomic hours, 6000 hours in all * University courses (foreign languages) - 15 credits
* Faculty compulsory courses – 74 credits
* Specialty elective courses –18 credits
* Program compulsory courses - 82 credits
* Elective module courses - 51 credits.

**see attached document 2** |
| **Assessment System** |
| The assessment system of the academic performance of students in higher education programs is in compliance with the Order of the Minister of Education and Science of Georgia of 5 January 2007 No 3 “On approving the calculation rules of credits for higher education programs” (as at 1 September 2016). 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 s/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 training 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.Maximum course assessment score is 100 points.The assessment of the academic performance of student in each course consists of the interim and final assessments, of which the conclusive one is a Final Examination. The maximum score for final examination is 40 points. Student has the right to take the final exam, if his/her minimum assessment score at mid-term examination is 18 points. 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. The assessment schemes for each particular course are given in syllabuses presented in annexes to this Program.  |
| **Employment opportunities** |
| The possible employment fields (the possible qualifications in the labor market) of graduates are as follows: **Module 1.**1. Transport, shipping, freight forwarding and transport-logistics companies engaged in uni-, multi-, inter-modal and combined transportation of freight and passenger flows ( operator of multimodal transportation, forwarding agent, logistics operator, freight insurance agent);
2. Ports, airports, railway stations (duty operator, manager of storage facilities, head of cargo handling service, stevedore);
3. Transport and logistics centers (center’s logistics specialist);
4. Customs and transport service enterproses (customs officer assistant, cargo checker cargo inspector);
5. Leasing, dealer and distribution companies (dealer, distributor).

**Module 2.**1. Vehicles authorized service and twenty-four-hour service centers (manager of transport service center);
2. Transport equipment and spare components wholesale and retail trade agencies and centers (dealer, distributor);
3. Lubricants distribution companies, petrol stations (distributor, manager);
4. Patrol Police and road traffic accidents expert offices (road traffic accidents expert assistant);
5. Transport insurance companies (transport insurance agent, insurance case expert assistant);
6. Urban transport design and traffic organization divisions (road traffic organization engineer, specialist);
7. Service agencies of the Ministry of Internal Affairs (operator assistant);
8. Transport regulatory commissions (senior specialist).
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| **Supportive resources**  |
|   Material resources existing at the University, which are required for implementation of educational program are as follows:1. A continuously updated book stock of the University’s scientific and technical library;
2. Auxiliary resource materials created by the University’s teaching staff;
3. Engineering (including transport) training laboratories;
4. Computer centers equipped with modern technologies;
5. Lecture and practical training rooms provided with equipment appropriate with modern multimedia training;
6. The opportunity of visiting, reviewing and analyzing the Internet websites for all interested students;

**Practical Training/Work Experience Internship:** The bases of research (vocational) internships: * TEGETA MOTORS Company (Kutaisi);
* LLC SOFMAR (Poti)
* LLC LOGISTEX (Poti);
* LLC SOVTRANSAVTO (Poti);
* Batumi and Poti seaports and terminals;
* Kopitnari Airport;
* DHL Company.

with which, the memorandums and agreements have been concluded.**see attached document 3** |
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**Attachment 1**

**Akaki Tsereteli State University**

**Faculty of Technical Engineering**

**Bachelor Program**

**Organization and Management of Transport and Logistics Systems**

**Study Schedule 2018-2022**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No | Course title  | Hours per week | Number of credits | Number of hours | Lect./practic./group/lab | Semesters | Precondition |
| Total | Contact hours | Independent | I | II | III | IV | V | VI | VII | VIII |
| Class hours  | Mid-term and final exams |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  | **University courses (15 credits)** |
|  | Foreign Language  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1** | Foreign Language 1 (Russian) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  | **5** |  |  |  |  |  |  |  |
|  | Foreign Language 1 (English) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  | **5** |  |  |  |  |  |  |  |
|  | Foreign Language 1 (French) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  | **5** |  |  |  |  |  |  |  |
|  | Foreign Language 1 (German) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  | **5** |  |  |  |  |  |  |  |
| **2** | Foreign Language 2 (Russian) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  | **5** |  |  |  |  |  | **1** |
|  | Foreign Language 2 (English) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  | **5** |  |  |  |  |  |  |
|  | Foreign Language 2 (French) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  | **5** |  |  |  |  |  |  |
|  | Foreign Language 2 (German) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  | **5** |  |  |  |  |  |  |
| **3** | Foreign Language 3 (Russian) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  |  | **5** |  |  |  |  | **2** |
|  | Foreign Language 3 (English) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  |  | **5** |  |  |  |  |  |
|  | Foreign Language 3 (French) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  |  | **5** |  |  |  |  |  |
|  | Foreign Language 3 (German) |  | **5** | **125** | 60 | 2 | 63 | 0.60.0. |  |  |  | **5** |  |  |  |  |  |
| **Total** |  | **15** |  |  |  |  |  |  | **5** | **5** | **5** |  |  |  |  |  |
|  | **Faculty compulsory courses (74 credits)** |  |  |  |  |
|  | **Mathematics**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Linear Algebra and Analytic Geometry |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** | **5** |  |  |  |  |  |  |  |  |
| 5 | Mathematical Analysis - 1 |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** | **5** |  |  |  |  |  |  |  |  |
| 6 | Mathematical Analysis - 2 |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** |  | **5** |  |  |  |  |  |  | 5 |
| 7 | Transport and logistics systems  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  | **3** |  |  |  |  |  |
| 8 | Probability Theory and Mathematical Statistics |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** |  | 5 |  |  |  |  |  |  |  |
| 9 | Fundamentals of Mechanics |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** | **5** |  |  |  |  |  |  |  |  |
| 10 |  Physics - 1 |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  | **4** |  |  |  |  |  |  |  |
| 11 | Physics -2 |  | **4** | **100** | 45 | 2 | 53 | **15.15.15** |  |  | **4** |  |  |  |  |  | 10 |
| 12 | Chemistry |  | **5** | **125** | 45 | 2 | 78 | **15.15.15** | **5** |  |  |  |  |  |  |  |  |
| 13 | Engineering Graphics |  | **5** | **125** | 45 | 2 | 78 | **15.0.30.** | **5** |  |  |  |  |  |  |  |  |
|  | **Computing** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Computer Skills - 1 |  | **5** | **125** | 45 | 2 | 78 | **15.0.30.** | **5** |  |  |  |  |  |  |  |  |
| 15 | Computer Skills - 2 |  | **3** | **75** | 30 | 2 | 43 | **0.0.30.** |  | **3** |  |  |  |  |  |  | 14 |
| 16 | Engineering Computer Graphics |  | **5** | **125** | 45 | 2 | 78 | **0.0.45.** |  | **5** |  |  |  |  |  |  |  |
| 17 | MathCAD |  | **3** | **75** | 45 | 2 | 28 | **15.0.30.** |  | **3** |  |  |  |  |  |  |  |
|  | **Economic and managerial disciplines**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Micro & Macro Economics |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  | **3** |  |  |  |  |  |  |
| 19 | Mathematical methods and models in management  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  | **3** |  |  |  |  |  |
| 20 | Project (Transport) Management |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  | **3** |  |  |  |  |  |   |
| 21 | Fundamentals of Logistics |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  | **3** |  |  |  |  |  |
|  | **Total** |  | 74 |  |  |  |  |  | 30 | 25 | 10 | 9 |  |  |  |  |  |
|  | **Elective courses - 18 credits (6 credits per semester)**  |
| 22,1 | Marketing |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  | 6 | 6 | 6 |  |  |
| 22,2 | Fundamentals of Transport Business Legislation |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,3 | History of Georgia  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,4 | Philosophy |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,5 | Entrepreneurship and Problem Solving |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,6 | Machine elements |  | **6** | **150** | 45 | 2 | 103 | **15.15.15.** |  |  |  |  |  |  |
| 22,7 | Foundations of transportation  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,8 | Emergency Situations and Civil Defense  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,9 | Political Science |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,10 | Ethics |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |
| 22,11 | Foreign Language (branch-wise) |  | **6** | 150 | 45 | 2 | 103 | 0.45.0. |  |  |  |  |  |  |  |  |  |
|  | **Total** |  | 18 |  |  |  |  |  |  |  |  |  | 6 | 6 | 6 |  |  |
|  | **Program’s compulsory courses (82 credits)**  |
|  | Mechanics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | Dynamics |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** |  |  | **5** |  |  |  |  |  | 9 |
| 24 | Theory of Strength of Materials |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  | **5** |  |  |  |  | 23 |
| 25 | Transport statistics  |  | **5** | **125** | 45 | 2 | 78 | **15.30.0.** |  |  |  |  | **5** |  |  |  |  |
| 26 | Fluid and air mechanics. Hydro- and pneumo-engines |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  | **5** |  |  |  |  |  |  |
| 27 | Materials and methods of technological processing  |  | **5** | **125** | 45 | 2 | 78 | **30. 15.0** |  |  | **5** |  |  |  |  |  |  |
| 28 | Replaceability and technical measurements  |  | **4** | **100** | 45 | 2 | 53 | **30. 0.15.** |  |  |  | **4** |  |  |  |  |  |
| 29 | Thermodynamics and heat transmission |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  |  |  | **4** |  |  |  |  |  |
| 30 | Electrical technology and basics of electronics  |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  |  |  |  | **4** |  |  |  | 11 |
| 31 | Vehicles electrical equipment and electronics |  | **3** | **75** | 30 | 2 | 43 | **15.0.15.** |  |  |  |  |  | **3** |  |  | 32 |
| 32 | Vehicle designs  |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  |  | **5** |  |  |  |  |
| 33 | Foundations of motor vehicle theory  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  | **3** |  |  | 32,34 |
| 34 | Vehicles energy equipment  |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  |  | **5** |  |  |  | 29 |
| 35 | Vehicles operation and traffic safety  |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  |  |  |  |  | **4** |  |  | 32,34 |
| 36 | Automated control systems  |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  |  |  |  |  | **4** |  |  |  |
| 37 | Vehicles traffic roads  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  | **3** |  |  | ,32 |
| 38 | Logistics machinery  |  | **4** | **100** | 45 | 2 | 53 | **15.15.15.** |  |  |  |  |  | **4** |  |  |  |
| 39 | Organization of commercial activities in transport  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  | **3** |  | 20 |
| 40 | Ecology and life safety in transport |  | **5** | **125** | 45 | 2 | 78 | **30. 15. 0.** |  |  |  |  | **5** |  |  |  | 29 |
|  | Practices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 | Practical training  |  | **3** | **100** | 100 |  |  | **0.100.0.** |  |  |  | **3** |  |  |  |  |  |
| 42 | Work experience internship |  | **3** | **50** | 50 |  |  | **0.50.0.** |  |  |  |  |  | **3** |  |  |  |
|  | **Total** |  | **82** |  |  |  |  |  |  |  | 15 | 16 | 24 | 24 | 3 |  |  |
|  | **Program’s elective modules (2 modules, 51 credits each)**  |
|  | Elective module -1Organization and management of transit technological systems  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 | Cargo handling  |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  |  |  |  | **5** |  | 22.7, 32  |
| 44 | Basics of transport-forwarding services  |  | **4** | **100** | 45 | 2 | 53 | **15.15.15** |  |  |  |  |  |  | **4** |  | 22.2, 22.7,32 |
| 45 | Transportation -1 |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  |  |  |  | **5** |  | 22.7, 33, |
| 46 | Transportation -2 |  | **7** | **175** | 75 | 2 | 98 | **30.30.15.** |  |  |  |  |  |  |  | **7** | 45 |
| 47 | Municipal transport  |  | **5** | **125** | 45 | 2 | 78 | **15.15.15.** |  |  |  |  |  |  |  | **5** | 22.7, 45 |
| 48 | Information technology in transport -1  |  | **4** | **100** | 45 | 2 | 53 | **15. 30.0.** |  |  |  |  |  |  | **4** |  | 14, 22.7 |
| 49 | Information technology in transport -2 |  | **7** | **175** | 75 | 2 | 98 | **15.15.45.** |  |  |  |  |  |  |  | **7** | 48 |
| 50 | Organization of customs-transport services  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  |  | **3** | 22.2, 22.7, 43, 52 |
| 51 | Transportation economics  |  | **8** | **200** | 75 | 2 | 123 | **30.45.0.** |  |  |  |  |  |  |  | **8** | 20,39 |
| 52 | Financial accounting and documentation of transportation companies  |  | **3** | **75** | 30 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  | **3** |  |  |
|  | Total |  | 51 |  |  |  |  |  |  |  |  |  |  |  | **21** | **30** |  |
|  | Elective module -2Organization of transport services and traffic safety  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53 | Organization and technical means of road traffic -1 |  | **7** | **175** | 75 | 2 | 98 | **30.30.15** |  |  |  |  |  |  | **7** |  | 32,33,37 |
| 54 | Organization and technical means of road traffic -2 |  | **7** | **175** | 75 | 2 | 98 | **30.30.15.** |  |  |  |  |  |  |  | **7** | 37,53 |
| 55 | Vehicles safety  |  | **4** | **100** | 45 | 2 | 53 | **30.15.0.** |  |  |  |  |  |  | **4** |  | 32,33 |
| 56 | Expertise of road traffic accidents -1 |  | **3** | **75** | 45 | 2 | 43 | **15.15.0.** |  |  |  |  |  |  | **3** |  | 33,37 |
| 57 | Expertise of road traffic accidents -2 |  | **8** | **200** | 75 | 2 | 123 | **30.30.15.** |  |  |  |  |  |  |  | **8** | 53,55,56 |
| 58 | Transport maintenance service  |  | **7** | **175** | 75 | 2 | 98 | **30. 30.15.** |  |  |  |  |  |  | **7** |  | 32,35 |
| 59 | Computer-aided design of the road traffic organizational schemes  |  | **7** | **175** | **75** | **2** | **98** | **15.15.45.** |  |  |  |  |  |  |  | **7** | 14,53 |
| 60 | Transport psychology and methodologcal bases of the training of drivers  |  | **8** | **200** | 75 | 2 | 123 | **30.30.15.** |  |  |  |  |  |  |  | **8** |  |
|  | Total |  | **51** |  |  |  |  |  |  |  |  |  |  |  | 21 | 30 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |