

Admission Prerequisites

The right to study in the doctoral educational programme is granted to a person who holds a Master's degree or an equivalent academic degree in the following broad field of the Classifier of Fields of Study: 07 Engineering, Manufacturing and Construction of the Classifier of Fields of Study.

A candidate wishing to enrol in the programme must submit:

1. A research project outlining the applicant's research aim and direction;
2. A relevant international certificate confirming knowledge of English at no lower than B2 level, or successfully pass a B2-level English language test organised and administered by GTU. A candidate who has completed a recognised English-language educational programme at any level of higher education is not required to pass the examination or present a certificate (completion of an English-language programme is confirmed by the relevant qualification document, i.e. a diploma);
3. Document(s) confirming previous work/publications in the relevant field and/or participation in scientific research projects and events and/or at least 2 years of work experience in the relevant field;
4. Other documentation/information predetermined by the University on the basis of the Regulations on Doctoral Studies of the LEPL Georgian Technical University.

A candidate whose submitted documentation fully meets the formal requirements is interviewed by the Temporary Faculty Commission. In accordance with the procedure established by the legal acts of GTU, the Temporary Faculty Commission ensures the assessment of persons wishing to be admitted to the programme in compliance with the principles of objectivity, fairness and transparency. Consideration is given to the assessment of the candidate's experience and abilities necessary for the successful completion of the doctoral educational programme, including (where available) the candidate's scientific publications, experience of participation in scientific conferences, and other documents and materials related to teaching/research activities (certificates, diplomas, patents, etc.).

Full information on the rules of admission to doctoral studies and the conditions of enrolment, as well as sample(s) of the English language examination tests, is available on the official website of the University. <https://www.gtu.edu.ge/migheba/programebi/migheba-saphekhurebis-mikhedvith/doqtorantura/doqtorantura-migheba/>

Enrolment in the programme by way of mobility is possible twice a year, within the time frames set by the Ministry of Education, Science and Youth of Georgia, in compliance with the conditions and rules defined by the legislation of Georgia and the legal acts of GTU.

Enrolment in the programme from a recognised higher education institution of a foreign country is carried out in accordance with the procedure established by the legislation of Georgia.

Programme Goal

The goal of the programme is to prepare a Doctor of Transport Engineering with in-depth knowledge based on the latest achievements in the field of transport (road and rail), who identifies topical and complex problems in the design, maintenance, development and servicing of vehicles, generates new knowledge on the basis of scientific research carried out using innovative methods, and engages in pedagogical activity.

Learning Outcomes/Competences (General and Professional)

- **Comprehends** the possibilities for expanding existing knowledge and applying innovative methods in the field of transport (road and rail), the scientific research and analytical methods based on the latest achievements, the methodology for conducting research, and progressive ways of maintaining the technical condition of vehicles;
 - **Critically evaluates** the essence, aim and methodology of scientific research work, the possibility of applying modern achievements, and the role of innovative technologies for the effective management and sustainable development of the transport sector;
 - **Analyses in depth** the effectiveness of the methods and equipment to be used for research in solving complex (problematic) issues of the design, development, maintenance of the technical condition and servicing of vehicles;
 - **Independently plans** organisational and technical measures and methodology for the effective conduct of systematic and high-technology research in the field of transport;
 - **Comprehensively evaluates**, using a logistics approach, the results of introducing modern technologies in the field of transport, as well as of optimising reliability, traffic safety and environmental performance;
 - **By finding original ways** and developing progressive technologies/new research approaches, **solves** complex and contradictory problems existing in the field of transport;
 - **Academically substantiates** the necessity of planning and correctly implementing scientific and technical research and of cause-and-effect relationships, taking into account the expected technical and economic results;
 - **Systematises and summarises** the results of research oriented towards the creation of new knowledge, and presents them at the level of the standards required for international peer-reviewed publications;
- Independently carries out** academic/teaching activities using modern teaching and assessment methods and innovative and digital technologies.

Student Knowledge Assessment System

Assessment of the study component:

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)** – Did not pass – 41–50 points, which means that the student needs more work to pass and is given the right to sit an additional examination once after independent work;
- **(F)** – Failed – 40 points or less, which means that the work carried out by the student is not sufficient and the subject must be studied anew.

If **FX** is received, GTU schedules an additional examination no earlier than 5 days after the announcement of the results of the final examination. The grade obtained by the student in the additional examination is not added to the points received in the final assessment. The grade obtained in the additional examination is the final assessment and is reflected in the final grade of the educational programme component.

If, taking into account the grade obtained in the additional examination, the final grade for the educational component is 0–50 points, the student is assigned the grade F – 0 points.

Assessment of the scientific research component/components:

- a) Excellent (*summa cum laude*) – an outstanding piece of work;
- b) Very good (*magna cum laude*) – a result that exceeds the set requirements in every respect;
- c) Good (*cum laude*) – a result that exceeds the set requirements;
- d) Average (*bene*) – a work of average level that meets the basic set requirements;
- e) Satisfactory (*rite*) – a result that, despite shortcomings, still meets the set requirements;
- f) Unsatisfactory (*insufficient*) – a work of unsatisfactory level that does not meet the set requirements due to significant shortcomings;
- g) Completely unsatisfactory (*sub omni canone*) – a result that completely fails to meet the set requirements.

The research component is assessed once, at the stage of the dissertation defence, by a final assessment.

"The Study and Research Components of the Doctoral Educational Programme and the Rules for Their Assessment" are published on the University website: "Instruction on the Management of the Educational Process at the Georgian Technical University"

<https://www.gtu.edu.ge/uploads/2026/03/educational-process2-1.pdf>

Subject	Credits
Scientific Communication Techniques	4
Teaching Methods	6
Transport Scientific Research Methods	6
Elective Courses 1:	
Problems of Road Transport Operation	7
Innovative Technologies for Railway Transport Development	
Structural Improvement of Mechanical Units of Railway Rolling Stock and Research into Technologies	6
Elective Courses 2:	
Modern Approaches to the Efficient Operation of Road Transport	6
Electric Traction of Advanced Electric Railway Rolling Stock	
Transport and Logistics and Integrated Distribution Systems	6
Professor's Assistantship	10

Total	50
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