Admission Prerequisites

The right to study in the doctoral educational programme is granted to a person who holds a Master's qualification or an equivalent academic degree in the field of Natural Sciences, Mathematics and Statistics (Geology, Geography, Geophysics, Chemistry, Biology), or in the field of Arts and Humanities (Archaeology).

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://gtu.ge/apply/phd.php/

Enrolment in the programme through 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 doctoral programme in Geology is to prepare researchers equipped with the skills to use modern research methods and technologies:

- For establishing the geological structure, material composition and history of development of the study area and the regularities of the geodynamic processes taking place in the subsurface and on the surface;
- For studying the forecasting, genesis and distribution of solid mineral deposits;
- For the assessment of mineral resources, the elaboration of issues of their practical use and the generation of new ideas.

Learning Outcomes/Competences (General and Professional)

- Discusses the types of sedimentary basins, the relationship of solid mineral deposits with the main structural elements of the Earth's crust, the Mesozoic intrusive complexes of the Caucasus and the features of the development of magmatism, the mechanisms of tectogenesis, the impact of groundwater on geodynamic processes, and the latest methods of stratigraphic subdivision and correlation of sections;
- On the basis of knowledge founded on the latest achievements of geology and related disciplines, presents and formulates in a new way problematic and practically significant issues of the structure and material composition of the lithosphere, geodynamics, history of development, and the genesis and distribution of solid minerals;
- Determines the role of geological research methods in establishing past epochs of the Earth, physical-geographical, palaeobiogeographical and palaeotectonic reconstructions, the structure of the lithosphere, geodynamics, and the regularities of the genesis and distribution of solid minerals.
- Plans various relevant geological works for the purpose of studying the geological structure of a territory, exploring for solid minerals, and investigating the conditions for the construction of structures and utilities for various purposes.
- Investigates problems related to igneous and metamorphic complexes, problems existing in geodynamically hazardous areas, the development of the organic world,
  and mineral resources in terms of their possible use;
- Carries out critical analysis, synthesis and evaluation of the natural resources of solid minerals, natural disasters, and the risks of adverse processes caused by human economic and engineering activities;
- By sharing the scientific and practical problems facing the field of geology, develops strategies and methods for solving them, and participates in local and international scientific and practical forums;
- In compliance with the principles of academic and supervisory integrity, independently implements innovative research projects based on the latest technological achievements in the field of geology.

Student Knowledge Assessment System

Assessment is carried out on a 100-point scale.

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, an additional examination is scheduled no earlier than 5 days after the announcement of the results. The grade obtained in the additional examination is not added to the points received in the final assessment.

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 piece of 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 piece of 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 defence of the dissertation, by a final assessment.

The study and research components of the doctoral educational programme and the rules for their assessment are available on the University website:

https://www.gtu.edu.ge/uploads/2026/03/edu-research-components.pdf

Subject	**Credits**
Scientific Communication Techniques	4
Geological Methods for the Study of Sedimentary Basins	5
Teaching Methods	6
Localisation Factors of Ore Minerals and Types of Deposits	7
Igneous and Metamorphic Complexes of the Caucasus	8
Professor's Assistantship	10
Plate Tectonics Theory and Evolution of the Lithosphere	5
Elective Courses	**5**
Methods of Stratigraphic Research. Biostratigraphy	5
Engineering-Geological and Hydrogeological Problems in the Construction of Large Structures	
Total	**50**