საქართველოს ტექნიკური უნივერსიტეტი
GEORGIAN TECHNICAL UNIVERSITY

PhD Educational Program

Program Title

საtყეო საქმე
Forestry

Faculty

აგრარული მეცნიერებების და ბიოსისტემების ინჟინერინგის ფაკულტეტი
Agricultural Science and Biosystems Engineering

Program Head/Heads

Professor Giorgi GAGOSHIDZE Professor Nino LOMIDZE

Qualification to be Awarded

Doctor of Forestry is awarded if the educational component of the educational program (60 credits) and the research component are completed. The duration of the program is at least 3 years.

Language of Teaching

Georgian

Prerequisite for Admission to the Program

In the PhD educational program is admitted a person who has a master's qualification or equivalent academic degree (detailed field of study area classifier: "Forestry", "Vegetation and animal science"; "Horticulture"; "Environmental technologies"; "Natural environment and wildlife"; "Environmental science"; "Biology"). Scientific publications, participation in scientific conferences, and other documents and materials related to educational/research activities (certificates, honorary certificate, patents, etc.) are taken into account.

Persons wishing to enroll in the program must submit a research project that outlines the applicant's research goal and direction, also an appropriate international certificate proving English language proficiency at least at the B2 level. In the absence of the above certificate, the applicant shall take the English language exam at the GTU examination center. A PhD candidate graduated from an English-language program (Bachelor's and/or Master's program) is not required to take the exam and present the certificate.

The PhD candidate is interviewed by an interim faculty commission.

The procedure for admission to the doctoral program and admission conditions are posted on the University website.

It is possible to enroll in a program on the basis of mobility twice a year within the deadlines set by the Ministry of Education, Science, Culture and Sport of Georgia, following the mandatory procedures and rules set by the University.

Admission to the program or transfer from a recognized higher education institution in a foreign country is carried out in accordance with the rules defined by the legislation of Georgia.

Program Description

The program is compiled using the ECTS system. 1 credit is equal to 25 hours, including contact and independent work hours. The distribution of credits is presented in the program curriculum.

The program lasts at least 3 years (6 semesters). The tasks of the educational component are sectoral and methodological preparation of doctoral students to implement the goals of the educational program of doctoral studies. The educational component helps the doctoral student in the successful preparation of the thesis, in further pedagogical and scientific activity. The educational component of the PhD program consists of 60 credits, as detailed in the program's subject loading.

Before the beginning of the semester, the Rector of the University issues an order on the progress of the academic process, which will be posted on the website.

The research component is assessed once, at the thesis defense stage, with a final grade. Detailed information can be found on the GTU website

Program Objective

The objective of the Doctoral Program in Forestry is to prepare highly qualified specialists and researchers, competitive in the labor market and meeting international requirements, with the ability to use innovative methods in accordance with international standards of the forestry sector.
To create a solid, continuous professional development opportunity for graduates to contribute to the effective operation of the forestry sector with the education obtained.
Graduates will be able to: using modern theoretical and practical methodology, make effective decisions to solve problems created in the forest sector, manage forestry, plan, implement and improve effective measures in the forests of Georgia. sustainable management and development of the forest sector.

Learning Outcomes/Competences (general and professional)

- Possesses knowledge based on the latest developments in forestry that allows for the expansion of existing knowledge and the use of innovative methods;

- Analyzes complex ideas and approaches of scientific communication and scientific activity; presents new methodology, new knowledge in a sound and clear manner;

- Independently plans and implements forestry research; develops new research, analytical methods focused on creating new knowledge;

- Critically analyzes the state of forestry at the level of the country and region; independently prepares recommendations on the protection of forest ecosystems, rational use of forest resources, reproduction, systematic and integrated solution of forest management problems and develops proposals for effective and sustainable forest management taking into account the specifics of the country and region;

- Can independently critically analyze, synthesize and evaluate new, complex and contradictory ideas, approaches in forestry research; making correct, effective conclusions and solutions to solve problems;

- Carries out the development of correct and effective solutions to problems in forestry using new research and analytical methods; formulates project proposal, new ideas, ways of solving existing problems;

- Justifies and clearly presents before colleagues and the general public in thematic discussions held at local and international level, measures for the protection of forest ecosystems, rational use of forest resources, reproduction, effective forest management, research results, conclusions;

- Shares and defends ethical and professional responsibilities, upholding the principles of professional integrity and conducts research based on the latest developments in forestry, effective forest management measures;

- Provides instruction by integrating the latest teaching-learning methods and their strategies, transferring knowledge based on the latest advances and creating assignments focused on reinforcement, ensuring learners are included/participate in the process of analyzing problems and using appropriate methods and criteria to evaluate them.

Methods of Achieving Learning Outcomes (teaching-learning)

☒ Lecture ☒ Seminar (group work) ☒ Practical ☐ Laboratory ☒ Scientific and thematic seminar ☒ Independent work ☒ Consultation ☒ Research component ☒ Structure of the thesis ☒ Thesis defense

In the learning process, depending on the specifics of a particular study course program, the following

activities of the teaching-learning methods are used, which are outlined in the relevant study course programs (syllabi):

discussion/debate;

collaborative work;

case study;

brain storming;

demonstration;

induction;

deduction;

analysis;

synthesis;

oral or verbal work;

writing work;

explanation;

action-oriented learning;

project development and presentation;

simulative, role-playing games;

Student's Knowledge Assessment System

Assessment is done on a 100-point system.

Assessment of the learning 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) - Failed to pass – 41-50 points, which means that the student needs more work to pass and is allowed to take an additional exam once with independent work;

- (F) - Failed - 40 points or less, which means that the work done by the student is insufficient and he/she will have to study the subject again.

In case of FX, an additional examination is scheduled no later than 5 days after the announcement of the results. The grade received at the additional examination is not summarized with the grade received at the final assessment.

Educational and research components of the PhD educational program and the order of their assessment are posted on the University website: Instructions for Managing the Educational Process at Georgian Technical University.

Assessment of the scientific research component(s):

a) with the highest praise (summa cum laude) - excellent performance;

b) with great praise (magna cum laude) - result exceeding the requirements in all parameters;

c) with honor (cum laude) - a result that exceeds the requirements;

d) satisfactory (bene) - an average level work that meets the basic requirements;

e) sufficient (rite) - a result that, despite its shortcomings, still meets the requirements;

f) insufficient - an unsatisfactory level work that cannot meet the requirements due to significant deficiencies in the work;

g) completely unsatisfactory (sub omni canone) - a result that completely fails to meet the requirements

The research component is evaluated once, at the stage of dissertation defense, with a final grade.

Fields of employment

- ➢ Ministry of Environmental Protection and Agriculture of Georgia, Central Office of the National Forestry Agency, regional services and forest districts, Central apparatus of the National Agency of Protected Areas of the same ministry and related structures;
- ➢ Ecology and landscaping services of the mayor's offices of Tbilisi and major cities of Georgia;
- ➢ Botanical Gardens of Tbilisi and major cities of Georgia;
- ➢ State breeding nursery;
- ➢ State hunting farm;
- ➢ Private nurseries and hunting farms;
- ➢ Universities;
- ➢ Public and private companies and organizations.

Human and material resources needed to implement the program

The program is provided with adequate human and material resources.

Number of attached syllabi: 8