



საქართველოს ტექნიკური უნივერსიტეტი
GEORGIAN TECHNICAL UNIVERSITY

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PhD Educational Program

Program Title

აგრარული ეკონომიკა

Agricultural Economics

Faculty

აგრარული მეცნიერებების და ბიოსისტემების ინჟინერინგის ფაკულტეტი

Agricultural Science and Biosystems Engineering

Program Head/Heads

Professor Paata KOGUASHVILI

Qualification to be Awarded and the Extent of the Program in terms of Credits

The Doctor of Economics is awarded if the educational component of the educational program, which is 60 credits, is mastered and if the research component is completed.

Language of Teaching

Georgian

Prerequisite for Admission to the Program

In the PhD educational program in Agricultural Economics is admitted a person who has the education corresponding to the detailed field of study area classifier: "Economics"; "Agronomy"; "Management and Administration,;" "Environmental Technology,;" "Food Processing,;" "Crop Research and Forestry,;" "Horticulture,;" "Fisheries,;" who holds a master's degree or equivalent academic degree and who meets the requirements for admission to the PhD program in accordance with the rules in GTU. Scientific publications, participation in scientific conferences, and other

documents and materials related to educational/research activities (certificates, diplomas, patents, etc.) are taken into account.

Persons wishing to enroll in the program must present an appropriate international certificate proving English language proficiency at least at the B2 level, or pass an exam at the examination center of the GTU. Applicants educated abroad (who have completed a foreign language program) are not required to take an exam or present a certificate.

Persons wishing to enroll in the program must also submit a research project that outlines the applicant's research goal and direction. In the case of a positive grade in English, the applicant is interviewed by the Faculty's provisional 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 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 European credit transfer system ECTS. 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). 60 credits are allocated for the educational component.

The compulsory elements of the educational component of the program are: techniques of scientific communication - 4 credits; teaching methodology - 5 credits; research methods in social sciences - 6 credits; special courses related to doctoral studies - 30 credits; professor's assistantship - 5 credits, thematic seminar - 5 credits. The first semester includes three compulsory elements of educational components (4, 6, and 5 credits), three special courses related to the program (15 credits). The second semester includes two special courses related to the program (10 and 5 credits), one elective course (5 credits), a professor's assistantship (5 credits), and a thematic seminar (5 credits). The compulsory elements of the research component of the program are: project/prospectus; colloquium-1; colloquium-2; colloquium-3; preliminary defense; completion and defense of the thesis. The doctoral student begins to prepare the research components from the second semester: project/prospectus; third semester: colloquium - 1; fourth semester: colloquium - 2; fifth semester: colloquium-3; sixth semester: completion and defense of the thesis. The research component is assessed once, at the defense of the thesis. For more details see the Regulations on PhD studies of Georgian Technical University and " Educational and research components of PhD educational programs and rules of their evaluation" on the GTU website.

The academic year consists of two semesters - fall and spring. The dates of interim and final/additional examinations are set at the beginning of each semester by the Rector's order based on the Instructions for Managing the Educational Process at Georgian Technical University, available on the GTU website..

Program Objective

The objective of the doctoral program in Agricultural Economics is to prepare highly qualified specialists, teachers and researchers for the formation and development of a high-tech agrarian economy, competitive in the labor market, meeting international requirements, with the ability to use innovative methods in accordance with international standards in the field of agricultural economics, who will be able to: using modern theoretical and practical methodology, make effective economic and ecological decisions in the growth of agricultural production and problems created in agribusiness, develop optimal agro-economic policy, establish the sectoral structure of agricultural production ensuring food security, develop regions and villages sustainably and manage land resources rationally.

Learning Outcomes/Competences (general and professional)

Possesses the methods of work on economic problems of development of farming and animal husbandry in agrarian enterprise; production costs, economic and marginal analysis; methods of increasing economic-ecological efficiency and other topical issues.

Connects the specifics of agricultural production, peculiarities of pricing, competition and competitiveness of products in the agrarian market, production, increasing economic-ecological efficiency and other topical issues of agrarian economics, with important theoretical and practical aspects of the development of the agrarian sector in the conditions of market economy.

Assesses the state of the agri-food sector for the purpose of its further development and improvement of agrarian strategy.

Develops recommendations on deepening and development of agro-specialization in depressed regions; on rational land use and landscape-ecological management; for systemic and comprehensive solution of food security problems; develops the sectoral structure of agriculture that ensures food security, taking into account the specifics of the country and region.

Critically analyzes the food security situation at the national and regional level.

Formulates new approaches to the development of the village as a territorial and socio-economic unit based on a critical analysis of the concepts and programs of rural development of the European Union, considering the specifics of bio geoclimatic conditions and regions of Georgia.

Prepares proposals on the status of villages and communities, municipal (communal) property in the village and the status of rural farmers. Identifies institutional and socio-cultural problems of the village.

Develops land use monitoring schemes to improve their optimization and management system.

Shares and adheres to standards of ethical and professional responsibility, reasonably and clearly presents new visions, strategies and concepts in relation to existing knowledge in the field of agricultural economics.

Delivers learning by combining the latest teaching-learning methods and their strategies, imparting knowledge based on the latest developments and preparing assignments oriented towards its consolidation, ensuring students' inclusion/participation in the process of analyzing issues and using appropriate methods and their evaluation criteria.

Methods of Achieving Learning Outcomes (teaching-learning)

- Lecture Seminar (group work) Practical Laboratory Practice
 Project 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, problem-based learning (PBL), demonstration, case study, induction, deduction, analysis, synthesis, oral or verbal work, writing work, explanation, action-oriented learning, project development and presentation, brain storming defining the problem/issue from a creative perspective

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

Fields of employment

- Higher education institutions;
- Scientific organizations;
- International organizations dealing with agricultural problems, consulting and analytical institutes;
- Public and private legal entities operating in the agro-industrial and food sector;
- Public and private structures of agri-food profile;
- Authorities of economic profile of self-governing cities and municipalities of Georgia.

Human and material resources needed to implement the program

The program is provided with adequate human and material resources. Auditoriums equipped with technical equipment are used to achieve the learning outcomes envisaged in the doctoral program. The educational program is provided with appropriate textbooks and methodological literature. The library of the University provides students with actual printed and electronic educational, methodological and scientific literature envisaged by the programs of educational courses, as well as the database of the library's book fund and electronic catalog posted on the University's website. The program will be implemented by academic, research, and visiting staff. Additional information about the program head and implementers can be found in the attached documents (CVs).

Number of attached syllabi: 13