

Bachelor's Educational Program of Informatics

*Recent changes made to the program
are discussed at the session of the faculty council:
Protocol No. 610-23, 16.10.2023
Approved by the decision of the Governing Board:
Resolution No. 33, 18.10.2023*

Level of Higher Education: Bachelor's degree (I level of higher academic education)

Instruction language: Georgian/The student has the opportunity to take several courses in English

Type of educational program: Academic, basic

Detailed field name and code: 0613 Development and Analysis of Software and Applications

Awarded qualification: Bachelor of Informatics

Duration of studying: 8 semesters

Educational program volume: 240 credits

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Relevance of Program

The role of information technologies in the process of globalization is increasing. In the 21st century, along with the introduction of technological innovations, the creation of artificial intelligence and the rapid development of the digital world, the demand for human resources with this profession has increased significantly. This implies an increase in the demand for software and the creation of software products, which requires highly qualified staff knowledgeable in this field.

Taking into account the above, the training of informatics is an important and relevant issue for the development of the country's economy, commerce, technology and many other fields. Based on the pace of development of the field, the present bachelor's program is particularly relevant, both in response to the current processes in the country and to the technological challenges of the world.

Prerequisites for admission to the program

The following will be admitted to the bachelor's educational program of Informatics:

A person with a document confirming complete general education or equivalent, who will be entitled to study at a European university based on the ranking of the coefficients of points obtained in the unified national exams.

Mandatory subjects for enrollment in the program are: Georgian language and Literature, foreign language (English language, Russian language, German language, French language), Mathematics/Physics.

The number of seats for each subject (Mathematics/Physics) should not be less than 10% of the seats announced on the program. The exact percentage distribution will be decided by the head of the program before the announcement of seats.

Minimum competence limit for unified national exams - overcoming the minimum limit defined by the legislation.

The ones will get the right to study on the program without passing the unified national exams as follows:

Persons who, on the basis of the Order No. 224/N of the Minister of Education and Science of Georgia dated December 29, 2011, "On the approval of the procedure for submission and review of documents by entrants/candidates of master's degree /students with the right to study without passing unified national exams/general master's exams" have to enroll in the university without passing the unified national exams. The mentioned persons are obliged to confirm the B2 level of the Georgian language in accordance with the "Rule for determining the language competence for a student of European University".

The following will also be admitted to the program:

Students enrolled by the rule of mobility in accordance of Order №10/N of the Minister of Education and Science of Georgia dated February 4, 2010 "On approval of the procedure and fees for transferring from a higher educational institution to another higher educational institution".

Goals of Program

The goal of the bachelor's program in informatics is to produce a graduate who:

- possesses competence in the field of informatics; conducts research, makes, develops or implements informatics profile projects in various fields;

- while fulfilling his professional obligations, realizes the ethical and social aspects in the field of informatics;
- independently continues to master new technologies in the field of informatics or receives education at the next level of education.

Learning Outcomes

The consistent and full implementation of the goals set by the bachelor's program ensures the achievement of learning outcomes corresponding to the description of the qualifications of the first level (Bachelor's degree) of the higher education qualifications framework:

Knowledge and Understanding

Describes the theoretical bases of informatics, defines the technologies needed for software development.

Discusses the importance of applying key concepts from computer science and other related disciplines to the software development process.

Skills

Performs complex, computationally intensive problems using appropriate technologies.

Analyzes a complex, computational problem. Evaluates the appropriateness of using the principles of informatics and appropriate subject areas to determine the way to solve the given problem.

communicates effectively on professional issues; Participates effectively in group discussions across program disciplines.

independently searches for, selects and uses relevant, new technologies; Considers the basic subject area for which the software is intended. He/she plans his/her own professional development taking into account individual learning requirements.

Responsibility and Autonomy

Identifies challenges in the field of informatics and outlines ways to deal with them with professional responsibility based on ethical principles.

Volume and Structure of Program

The bachelor's program is made on the basis of ECTS, is student-centered, and is based on the student's academic load required to achieve the goals of the educational program.

The duration of the program is 4 academic years or 8 semesters and includes 240 credits.

1 credit includes 25 astronomical hours. A credit in a unit of time (hours) reflects the volume of work required by the student to master the relevant study course of the program and to achieve the learning outcomes. Credit includes contact and independent work hours.

During the semester, the student must complete 30 credits (30 credits = 750 hours), and within the academic year - 60 credits, however, depending on the specificity of the program and student's individual workload, the number of credits during the academic year may be less or more than 60, but not more than 75 credits.

The Bachelor's program of Informatics includes 240 credits, including:

Mandatory component	198 credits
-Free component which is focused on the development of general, transfereable skills	34 credits
-Mandatory study courses of the main field of study	144 credits
-Practice	5 credits
-Bachelor's thesis	15 credits
Optional Component	42credits
Optional courses of the main field of study	27 credits

- Free component, which is also focused on the development of general transferable skills and within which the student is given the opportunity to choose study courses from any educational program of the relevant level operating in the university, observing the prerequisites for admission to the study course.

To complete the program, it is mandatory to reach the B2 level of the English language within the program, pass (the program provides teaching of the English language at the B2 level) or documentary confirmation. It is possible to confirm knowledge of English language at the B2 level by an internal university exam. A student is exempted from learning English if he/she proves his/her knowledge of English at B2 level by internal university exam or documentary confirms. In this case, the credits intended for the English language in the program can be taken by the student, like free credits, through the training courses available within the programs of the relevant level operating at the university, observing the prerequisites for admission to the training course. Within the framework of the program, the student's level of English language proficiency is determined by an internal university exam or on the basis of the submitted document, and the student starts learning English at the appropriate level. A student who needs to start from the initial level of English learns the mentioned levels (A1, A2level) by utilizing the free credits provided by the program.

One academic year consists of 42 weeks, one semester consists of 21 weeks, 15 weeks of which are academic, and the remaining 6 weeks are sessional. Namely, weeks 17 and 19 are the period for final exams, and weeks 20 and 21 are the period for additional final exams. The interval between the final and the proper additional exam should be at least 5 days after the announcement of the results of the final exam. In the 8th or 9th week, midterm exams are held.

The study courses provided by the bachelor's program are directed to the achievement of the goals set in the program and the formation of competencies corresponding to acceptable qualifications as a result of studies. The logical sequence of the formation of achievable competencies determines the content, structure and curriculum of the bachelor's program.

Assessment System of Student's Knowledge

The student's knowledge assessment system is in accordance with the "Rules for calculating credits for higher education programs" approved by Order No. 3 of the Minister of Education and Science of Georgia on January 5, 2007, which provides for:

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) Sufficient – 51-60 points.

b) Two types of negative assessment:

- (FX) failed - 41-50 points, which means that the student needs more work to pass and is allowed to take the additional exam once with independent work;
- (F) Failed – 40 points and less, which means that the work done by the student is not enough and he/she has to study the course/subject again.

In case a student receives a negative grade (FX), he has the right to take an additional exam in the same semester. The interval between the final and the proper additional examination should be no less than 5 days after the announcement of the results.

A student will be admitted to the additional exam even if he/she passed the minimum limit for the final positive assessment (51 points), but failed to pass the minimum limit for the final exam.

A student will be admitted to the final exam if the minimum limit of the mid-term assessment is exceeded. The minimum competency limit for the mid-term assessment is 50%.

Credit can be granted if the result obtained by the student meets the following conditions:

- a) passed the minimum limit of the final exam (the minimum limit of the final exam is 50%+1 point);
- b) scored at least 51 points out of the maximum 100 points of the final assessment.

The maximum evaluation of the training course is 100 points, which includes mid-term and final assessments.

The staff implementing the training course, taking into account the specificity of the training course, is authorized to define different (higher) minimum competency limits for midterm and final assessments, in accordance with the requirements established by the current legislation of Georgia.

The staff implementing the training course, taking into account the goals, learning outcomes and specificity of the training course, is also authorized to determine the minimum competence limit in the evaluation method/methods. Whether there is a minimum competency limit in the assessment method/methods, credit will be granted by passing the minimum competency limit in each assessment method, passing the minimum competency limit in each assessment component (mid-term and final assessment) and obtaining at least 51 points as a result of summing the points obtained in the mid-term and final assessments in case.

Field of Employment

A graduate of the foregoing educational program can be employed in a web studio, an internet company, an advertising agency, any company that has a specialized department for software development. The level of competence of graduates corresponds to such positions as: programmer, developer, etc.

The profession responds to modern challenges, is one of the highly paid fields, and also allows for remote employment both within and outside the country.