

School of Business and Social Sciences

Bachelor's Education Programme

Information Technologies

Education Cycle:	Bachelor's Degree (1 st cycle)
Language:	Georgian
Type of Study Programme:	Academic
Direction:	Engineering
Awarded Qualification:	Bachelor of Informatics
Duration:	8 semesters
Credit Value of the Programme:	240 credits
Programme Coordinator:	Professor Ketevan Nanobashvili Invited Staff Gulnara Janelidze

Bachelor's Programme Admission Precondition: Applicant can be enrolled in the Bachelor's programme if s/he holds a state certificate of complete general education, has passed the Unified National Exams, in case of internal/external mobility or without passing the Unified National Exams within the Law of Georgia on Education.

The Purpose of the Programme

The programme "Information Technology" aims at providing a bachelor with the general knowledge of the main issues of the field of Information Technology. In particular, the purpose of the programme is to prepare a competitive specialist, who has the modern systematic, methodological, information-technological knowledge, to deal with the challenges of the permanently changeable world in a creative way and to use the opportunities of modern technology and digital democracy tools of electronic management. S/he is able to implement the different profile information systems and technology projecting, to organize the information-technologic service, to develop a firm, enterprise, organization's information resources. Besides, s/he is able to use the modern computer network,

database management system, information system's independent exploitation, service, and to participate in the improvement and projecting, integration and implementation process.

Programme Structure

The Bachelor's programme of "Information Technology" is oriented on the achievement of the essential knowledge and skills relevant to the qualification and acquiring with appropriate competence for practical work and study at the next cycle. The programme combines the main specialty and free components. Within the Bachelor's competences of the higher education qualification frame, with the Bachelor's programme, a graduate acquires with the main (specialty) knowledge and additional (contributing) knowledge with learning components. The main knowledge includes the obligatory courses of specialty with essential competencies for practice and Bachelor's thesis in specialty. The additional knowledge includes the obligatory courses and free components contributing to the Bachelor's degree activities. With the free components, there are considered the elective courses and free courses/credits of Bachelor's programme, which can be selected from the curriculum of any study programme. Therefore, a student can form an individual profile with the free component selection. The Bachelor's programme components are directed to achieve the objectives of the programme and form the relevant competences for Bachelor's graduate. The logical sequence of achievable competences defines the content, structure and curriculum of the Bachelor's programme.

Bachelor's Programme - Information Technology	240 credits, among them:
Obligatory components:	180 credits
University obligatory education course:	10 credits
Foreign language component (General)	20 credits
Specialty obligatory education course:	140 credits
Bachelor's Degree Thesis in Specialty/Practice:	10 credits
Free components:	60 credits
<i>Elective education courses of Specialty</i>	20 credits
<i>Free education courses/credits</i>	40 credits

Note: *The elective courses are selected due to the curriculum of the Bachelor's programme, where the admission preconditions of elective courses are considered. The free education courses/credits, which are defined as the free components of the education courses, can be selected from any study programme curriculum, the only limit for the selection is the precondition of the education course.*

Learning Outcomes

The sequential and high-quality implementation of Bachelor's programme goals ensures the achievement of the appropriate learning results of the relevant qualification at the first cycle (Bachelor) of higher educational frame based on the Statement N120/n by the Minister of Education and Science of Georgia issued on December 10, 2010:

Knowledge and understanding	<p>Has the deep knowledge of:</p> <ul style="list-style-type: none"> • The basic principles and methods of computer systems and communication networks architecture, algorithmization, programming, database theory, computer graphics and web technologies; • Identification and evaluation of the information systems and their qualitative characteristics; • The basic concepts and methods of information security and protection.
Applied knowledge	<p>S/he is able:</p> <ul style="list-style-type: none"> • To evaluate the computer hardware and software parameters, to select the components of computer system, local computer network building, deploy and effective management skills; • To state a task, analyse information, compile an algorithm, a program in the different program environments and to improve it; • To process the graphic information, to use of graphic elements for web-design, to design web-pages, to display and manage in the internet-space; • To find information, to systematize, to save, process and administrate the database with the database management systems; • To provide the information security for computer and software systems.
Making judgements	<ul style="list-style-type: none"> • To identify the task, to make the reasonable and substantiated conclusions and analysis, the optimal methods and standards of its decision; • To use the various methods in data processing tasks; to formulate argumentative conclusions about systematization and saving methods and software tools with the consideration of users' needs; • To make a reasonable conclusion about possible ways of analysing, generalizing and solving problems generated in the working conditions.
Communication skills	<ul style="list-style-type: none"> • To prepare the report on ideas, existing problems and solutions, proposals and opinions, present to information specialists and non-specialists in written and oral way in the Georgian and English languages; • To conduct the written and verbal communication on business issues in the Georgian/English languages, to participate in the discussions on

	<p>information technology, to express own opinions, to substantiate and present own opinions, to share others' opinions;</p> <ul style="list-style-type: none"> • To use the different sources of English language information, including internet resources, information-surfing and to translate them into Georgian; • To use the modern information-communication technology (including in the field); to prepare and present business documents, reports; • To use the modern information-communication technology for the purpose of quality improvement, problem-solving and communication;
Learning skills	<ul style="list-style-type: none"> • To conduct the adequate evaluation of the knowledge received during studying at the Bachelor's programme and to use the different resources, including information-communication technologies, other information sources, field literature in order to improve knowledge and skills; • To evaluate own learning process, and define the future necessities on the basis of leading international experience, innovation, competence improvement during studying at the Bachelor's degree.
Values	<ul style="list-style-type: none"> • The knowledge of professional, ethical, social norms and responsibilities for their protection; • The professional responsibilities and understanding of ethical aspects of business administration; • The motivation of participation in the process of value formation related to the professional field and striving for its establishment.

Students' Knowledge Assessment System

The students' learning performance is assessed with 100-point (maximum 100 points) system and includes two types of assessment – midterm exam and final exam (maximum 40 points). The minimum grade of the midterm exam of the study course/component is 21 points. The minimum grade of the final exam is 50% of maximum points of final exam. It is not allowed to give credit with the use of only one form (midterm or final assessment). The final assessment (points) of the study course/component is the sum of the points of midterm and final exams.

The grading system allows:

Five types of positive assessment:

- (A) Excellent - 91-100 points of maximum grade;
- (B) Very good - 81-90 points of maximum grade;
- (C) Good - 71-80 points of maximum grade;

(D) Satisfactory - 61-70 points of maximum grade;

(E) Sufficient - 51-60 points of maximum grade.

Two types of negative assessment:

(FX) Insufficient – 41-50 points means that a student needs more work to pass and is given the right to pass an additional exam with independent work;

(F) Fail – 40 points or less means that the work carried out by a student is not enough and he/she has to learn the subject from the beginning.

In case of receiving FX in the study program component, the additional exam (defence of the Bachelor's work) is appointed in no less than 5 days from the announcement of the final exam (Bachelor's work).

In case of receiving F (fail), a student re-studies the course (she/he has to present the Bachelor's thesis) and passes the exam (has to defence the Bachelor's work).

The assessment components, methods and criteria are reflected in the syllabus of study courses. The information about the assessment system and components is available for students.

Bachelor's Thesis: The mentioned study component is assessed with the sum of assessment of a reviewer (minimum 21 points, maximum 60 points) and public defence (minimum 21 points, maximum 40 points) in consideration with the conclusion of Bachelor's thesis's supervisor. The public defence of Bachelor's work is mandatory. On the basis of assessment of the Bachelor's work prepared and presented for the defence towards the Qualification Commission, the minimum positive grade is 51 points and the maximum is 100 points. The assessment criteria of Bachelor's thesis by a reviewer and the assessment criteria of presentation by the Commission are given in the syllabus of Bachelor's thesis and are available for students of Bachelor's degree.