



GRUNI

გრიგოლ რობაქიძის უნივერსიტეტი
GRIGOL ROBAKIDZE UNIVERSITY

Educational programs

I. Program requisites

Program name	Information Technology
Level of higher education	Undergraduate/sixth
Detailed field name and code	Information Technology; 0612.1.1.
Qualification to be awarded	Bachelor of Information Technology
language of instruction	English
Program volume	180 credits
Standard duration of the program	3 years / 6 semesters
Implements the program	Grigol Robakidze University
Gives qualifications	Grigol Robakidze University
Educational unit / school	Business and Management
Academic year	2026-2027

II. Program overview

Undergraduate Information Technology study program ensures that students acquire a comprehensive understanding of modern information technology concepts, tools, and practices, while developing the analytical, technical, and professional skills required for effective problem-solving in diverse organizational contexts. The program is designed to enable students to apply theoretical knowledge to practical IT tasks, adapt to rapidly evolving technologies, and operate responsibly within ethical, legal, and social frameworks. Through a combination of coursework, laboratory activities, and project-based learning, students are prepared for lifelong learning and continuous professional development in the IT field.

III. Program objectives

Program objectives:

- The objectives of the Bachelor of Information Technology program are to develop competent, adaptable, and innovative IT professionals capable of meeting the technological needs of organizations and society. The program aims to:
 - Provide a strong foundation in core IT and computing knowledge, including programming, software development, databases, networking, systems administration, and cloud technologies.
 - Develop practical and analytical skills through labs, projects, and applied learning, enabling students to solve real-world IT problems effectively.
 - Foster professionalism, responsibility, and ethical awareness, including teamwork, communication, and decision-making within legal and social frameworks.
 - Prepare graduates for global employability and further education, equipping them with lifelong learning skills and the ability to adapt to emerging technologies and industry trends.

IV. Learning outcomes

1. Knowledge and understanding – student:

- Understand core concepts in computing and information technology, including programming, software development, databases, networks, systems administration, and cloud technologies.
- Apply theoretical knowledge to analyze IT problems and select appropriate tools and technologies for practical solutions.
- Recognize ethical, legal, and social implications of IT practices and technologies.

2. Skill – student:

- Design, develop, implement, and maintain IT systems and applications.
- Use analytical, programming, and problem-solving skills to address real-world IT challenges.
- Apply modern technologies and tools, including cloud platforms, cybersecurity practices, and data analysis, in practical projects.

3. Responsibility and autonomy – student:

- Work independently and collaboratively in professional IT environments.
- Take responsibility for tasks, projects, and decision-making while demonstrating professionalism.
- Engage in lifelong learning to adapt to emerging technologies and continuously develop IT competencies.

V. Prerequisites for admission/enrollment to the program

For Georgian citizens, the prerequisite for acquiring student status is the outcome of the unified national examinations.

The acknowledgment of student status at the university is contingent upon a ranking document sanctioned by the National Assessment and Examination Center. Based on this document, an agreement is formed with the student, and by no later than October 1, the rector issues a comprehensive legal act regarding the enrollment of applicants/students. This document is forwarded to the Ministry of Education and Science of Georgia within fifteen days.

Following the Minister of Education and Science of Georgia's directive on the results of the unified national exams, the university begins the student registration process within a timeframe specified by the university. Information regarding the commencement of student registration is published on the official website of the university at least ten days prior to the start of registration.

Student registration is executed in accordance with the rector's legal act, adhering to the academic calendar, and is divided into two phases: administrative registration followed by academic registration. Academic registration is facilitated through the "Nexus" Electronic Program for managing the educational process.

The documents required for initial registration to obtain student status include: A) A copy of the Identity Card; B) A copy of the military registration certificate (for males); C) A document certifying completion of General Education - the Certificate; D) Two color photographs (3X4, including an electronic version); E) In cases of minority, a copy of the legal guardian/parent's identity card (registration must be conducted in conjunction with the legal guardian).

English language proficiency at a minimum B1 level is required. Applicants who are citizens of countries where English is an official language, who have completed an English-taught educational program within the last three years with a minimum GPA of 75/100 or 3.0/4.0, or who present an internationally recognized B1-level English language certificate are exempt from internal language testing

VI. Methods of achieving learning outcomes

The following methods are used in the learning and teaching process:

Lecture - mainly have an interactive and presentational nature, which allows for latent monitoring of the quality of understanding of the transmitted information and, accordingly, for changing accents and correcting the pedagogical strategy during the course of the lecture. Taking into account the format of the lectures, as well as the lecture of a specialist in the field.

Work in a group - the student demonstrates in-depth knowledge of the material presented at the lecture, answers the questions, connects the problematic issues raised around the topic, exchanges information, forms different approaches and opinions, is involved in the team's work process and makes logical conclusions.

Practical training - the formation of the ability to transfer knowledge into practice, includes working on cases, situational problems and solving other practical exercises. During situational modeling, students acquire professional skills in an environment as close as possible to reality, which provides an effective means of consolidating theoretical knowledge and forming practical skills.

Teaching with electronic resources - refers to receiving consulting services from the lecturer or other types of communication using the electronic portal (Nexus), including for the purpose of providing, explaining, evaluating learning material/homework for students with special educational needs.

The directive teaching method used within the program involves the student's independent homework in the format of essays, abstracts, projects, exercises, situational tasks, cases, reports and other certain research work without consulting the teacher, which helps to independently find the necessary sources, analyze and develop the skills of writing a research paper.

VII. Knowledge assessment system

The assessment system is divided into two components - midterm and final assessments. Maximum (60 points) and minimum (21 points) limits are defined for midterm assessments. In the final assessment, the maximum limit is 40 points, and the minimum - 21 points.

The sum of the results of the midterm and final assessment gives the final/semester assessment, the minimum positive margin of which is 51 points, and the maximum is 100 points. A student is awarded credit if the minimum final/semester grade is passed.

The assessment system allows:

a) Five types of positive evaluation:

- (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 evaluation:

(FX) Didn't pass

- 41-50 points, which means that the student needs more work to pass and is given the right to take an additional exam with independent work, which will be scheduled no later than 5 days after the announcement of the final exam results. In case of repeated failure, the course must be repeated.

(F) Failed

- 40 points or less means that the work done by the student is not enough and they have to study the course from scratch.

After passing the midterm or final assessment it is not allowed to retake it to increase the score. In case of missing an exam with a valid excuse, the dean is authorized to issue a retake permit.

Analytical essay - is a scientific paper written by the student within the scope of the topic specified or selected by him/her and agreed with the professor. Demonstrates the skills of understanding the problem, ways of solving it, critical analysis and innovative synthesis of information, use of material and information technologies, formation of reasoned conclusions, independent learning and conducting research, and protection of academic honesty.

Research project (individual and/or team) - is a written research paper, which is completed by the student (individual and/or team) under the guidance of the professor within the framework of the topic agreed with him/her. It presents the student's systematic knowledge around a specific topic of a specific discipline, the methods used for analyzing and synthesizing collected data, including the adequacy of information technologies, problem vision and setting up original ways to solve it, connecting the solutions to the problem with theoretical knowledge, concise conclusions, the ability to work in a team and with an audience. Communication, structured and argumentative representation and presentation skills.

Discussion - provides information about the development and manifestation of the student's ability to seek different approaches to the same idea, the coexistence of different opinions, the importance of seeking a common opinion or group agreement to make a decision, tolerance and respect for other people's opinions. It develops critical thinking, argumentative conclusions, professional skills of understanding and opposing values in a new way, identifying problems and finding ways to solve them.

Case analysis - demonstrates the skills of perceiving the real picture, applying knowledge in practice, dividing the given information into certain groups, evaluating the features of the problem seen by others, finding different options for solving the problem, fighting the causes of the problem and seeing the ways to solve the problem.

Quiz/Combined Test/Questionnaire - provides information about the knowledge obtained within the framework of a specific topic, the answers reveal a deep and systematic knowledge of the issue.

Situational Task - A situational task is a system of quasi-real factors that creates an imaginary situation and outlines a specific professional task. The task can be set both in written format and verbally. It shows the ability to see the problem, to search for ways to solve the problem, to understand professional values, to formulate specific argumentative positions, to evaluate individual ways of solving problems, to perceive the situational context objectively and to see the problem/complex problem, to determine the way to solve it and to take responsibility for the decision.

Filtering information - is a variety of the project, which contains information collected from different information sources within the framework of the topic specified by the professor. For the preparation of the project, the student is given a partial or no source. He is obliged to find, select/optimize and structure the received information. The paper does not involve a critical analysis of the information, a comment or a presentation of one's own opinion - it should only be a review of the information received from various sources, a general analysis. He demonstrates the skills of written communication with the professional and non-professional community, general analysis and structuring of complete and/or incomplete information, the use of material and digital information tools to find information, to distinguish between primary and secondary information, and to conduct learning independently.

Report - is a structured written work, which involves a systematic review of a book, article and other work of a creative or scientific nature, it demonstrates the skills of structured and logical presentation of a written work, adequately perceiving the issues/problems raised in analytical works, delineating one's attitude, critical analysis and innovative synthesis.

Argumentative essay - presents the author's own position/opinion on the issue and, accordingly, the arguments that will justify the superiority of the presented position/opinion. It shows the quality of understanding the treated issue, understanding the problem and ways to solve it, forming theories related to the topic, own vision/approach, evaluation, serves to develop arguments/counter-arguments and, overall, critical thinking skills.

The assessment components defined in order to assess the achievement of the learning outcomes defined in the educational program component are: mid-term and final assessment.

Mid-term assessment is carried out at the time determined by the study plan. Its purpose is to evaluate the knowledge and skills acquired within the course material.

The final assessment is conducted at the end of the semester, in order to evaluate the acquired knowledge and skills, in the form/method determined by the curriculum.

VIII. Program structure and qualifications

The full program course is designed for four academic years. The academic year includes 38 working weeks and consists of two semesters - autumn (19 weeks) and spring (19 weeks). Of these, 30 weeks cover the learning/teaching process, 2 weeks are devoted to the preparation and passing of the mid-term assessment, and 6 weeks to consultations and the preparation and passing of the final assessment.

The program requires the student to collect at least 180 credits. 1 credit contains 25 hours. Program outcomes are achieved through the learning of individual disciplines - the relevant syllabi determine both the volume of learning material and learning/teaching and assessment methods.

The standard load of a student within the academic year is 60 credits. However, it is allowed to accumulate no more than 75 credits per year.

90 points < Diploma with Honours, 51-90 points – diploma.

The Bachelor's program in Information Technology is structured over six semesters with a clear academic progression. The first semesters (1–2) focus on foundational knowledge in mathematics, statistics, programming fundamentals, and core information technologies, developing computational and algorithmic thinking.

The middle semesters (3–4) emphasize software development, data structures and algorithms, complexity analysis, databases, operating systems, and computer networks. In the final semesters (5–6), students study advanced IT topics such as software engineering, system architecture, cloud computing, and cybersecurity, and complete a capstone project and mandatory professional practice.

The curriculum combines a substantial mandatory component (138 ECTS) with an optional component within the major field, where students are required to accumulate at least 42 ECTS from elective courses. This structure allows students to personalize their learning path by selecting electives aligned with their academic interests and career goals in Computer Science and Information Technology, such as software engineering, algorithms and data structures, database systems, computer networks, cybersecurity, cloud computing, Python programming, and artificial intelligence.

In addition to major-field courses, the curriculum includes a free component offering instrumental, cultural-historical, and social science modules. Through these components, students develop transferable skills such as academic writing, digital literacy, teamwork, ethical awareness, and career development skills, supporting holistic academic and professional growth.

Practical orientation is ensured through applied coursework, continuous assessment, a mandatory professional practice (Internship) (12 ECTS), and a capstone project, which enable students to integrate theoretical knowledge with real-world Information Technology challenges. Overall, the curriculum provides a balanced combination of structure and flexibility, supporting clear academic progression, individual development, employability, and readiness for further studies at the Master's level.

Code system of study disciplines:

The code system is structured into two groups. Codes of the first group are intended for academic programs and consist of 6 characters.

The first three are letters, the next three are numbers. The first two letters of the name of the school and the first letter of the word "program" - P are used as letter symbols, while the first digit indicates the educational level, and the following digits indicate the number of the program. i.e. The program code determines which school and educational level a particular program belongs to Eg.: BMP201 – Master's Program of the School of Business and Management.

The second group of codes is aimed at identifying educational disciplines. It generally consists of 7 characters. The first three are alphanumeric characters and contain the first three letters of the program name.

The first of the numerical symbols indicates the educational level, the next two digits are the number of a specific discipline, the last letter symbol indicates the structural group of the discipline: E - optional, C - compulsory. E.g.: BUS201C refers to: the first compulsory discipline in the master's program of business administration.

IX. Program provision

The School employs 48 academic staff and 39 affiliated staff, complemented by invited personnel for specific teaching needs, ensuring sufficient human resources for teaching, research, and student support activities.

X. Employment of graduates and the possibility of continuing their studies

Graduates of the Bachelor's program in Information Technology are well prepared for a wide range of entry-level and junior roles in the IT and digital technology sectors. The program provides strong foundations in software development, programming, databases, networking, cybersecurity, and applied computing, enabling graduates to adapt to diverse professional environments. Many graduates pursue careers as software developers, junior IT specialists, system administrators, data analysts, or technical support professionals, contributing to the design, implementation, and maintenance of IT solutions.

In addition, the university has active memoranda of understanding with technology companies and business-oriented IT organizations, providing internship opportunities and pathways to employment upon graduation. The program equips students with practical skills, problem-solving abilities, and professional competencies, ensuring strong employability across multiple sectors and a solid foundation for further studies at the Master's level.

XI. International integration

The program includes:

Within the framework of international mobility, the opportunity to participate in student competitions, raise qualifications and go on business trips to foreign countries for the purpose of teaching.

1. University of Heidenheim (Germany), <https://www.heidenheim.dhbw.de/en/home>;
2. University of Porto (Portugal), <https://www.up.pt/portal/en/>;
3. Jan Kochanowski University (Poland), <https://en.ujk.edu.pl/>;

XII. Program approval

The program is approved by the order of the rector, No. 01-05/006, dated – 13.02.2026.

Curriculum Matrix

School **School of Business and Management**
 Educational level **Bachelor**
 Program Name **Information Technology (IT)**
 Qualification **Bachelor of Information Technology**

Head of the Program **Peter Ölveczky**
 Program Volume **180**
 Academic year **2026**

Serial number	Name of the study course	Course code	Prerequisite Course Code	Semester	Number of credits	Lecture	Working in a group	Practical work	Laboratory	Midterm-exam	Final Exam	Contact hours	Independent work	Total number of hours	Consultation	Lecturer's Surname, name
* Mandatory component of the main field of study - ## credits																
1	I	CSU-C-101		1	7	30	15	2	2	49	126	175	15	15		Helmut Seidl
2	Computer Architecture	CSU-C-102		1	5	30	15	2	2	49	76	125	15	15		Salome Pirozmanishvili
3	Linear Algebra	CSU-C-103		1	5	30	15	2	2	49	76	125	15	15		Anzor Beridze
4	Discrete Mathematics	CSU-C-104		1	5	30	15	2	2	49	76	125	15	15		Volker Diekert
5	Calculus	CSU-C-105		1	5	30	15	2	2	49	76	125	15	15		Giorgi Chelidze
6	Foreign Language I	CSU-C-106		1	3	15	15	2	2	34	41	75	15	15		Tamar Gagoshidze
7	Data Structures & Algorithms	CSU-C-107	CSU-C-101	2	6	30	15	2	2	49	101	150	15	15		Tamara Mtsentlintze
8	II	CSU-C-108	CSU-C-101	2	6	30	15	2	2	49	101	150	15	15		Helmut Seidl
9	Probability & Statistics	CSU-C-109	CSU-C-105	2	5	30	15	2	2	49	76	125	15	15		Nino Demetrashvili
10	Foreign Language II	CSU-C-110	CSU-C-106	2	3	15	15	2	2	34	41	75	15	15		Tamar Gagoshidze
11	Introduction to Databases	CSU-C-111	CSU-C-101	2	5	30	15	2	2	49	76	125	15	15		Ana Idadze
12	Computer Networks	CSU-C-112	CSU-C-102	2	5	30	15	2	2	49	76	125	15	15		Vasili Nikolaev
13	Operating Systems	CSU-C-113	CSU-C-107	3	5	30	15	2	2	49	76	125	15	15		Furio Honsell
14	Introduction to Cybersecurity	CSU-C-114	CSU-C-112	3	5	30	15	2	2	49	76	125	15	15		Sedat Akleylek
15	Theoretical Foundations of Computer Science	CSU-C-115	CSU-C-104	3	6	30	15	2	2	49	101	150	15	15		Besik Dundua
16	Artificial Intelligence: Concepts and Applications	CSU-C-116	CSU-C-105	3	6	30	15	2	2	49	101	150	15	15		Mariam Dedabrishvili
17	Software Engineering	CSU-C-117	CSU-C-108; CSU-	3	5	30	15	2	2	49	76	125	15	15		Demetre Labadze

18	Foreign Language III	CSU-C-118		3	3	15	15	2	2	34	41	75	15	Tamar Gagoshidze
19	IT Project Management	CSU-C-141	CSU-C-117	4	6	30	15	2	2	49	101	150	15	Demetre Labadze
20	Web Technologies	CSU-C-128	CSU-C-101	4	6	30	15	2	2	49	101	150	15	Anriette Michel Fouad Bishara
21	Systems	CSU-C-140	CSU-C-111	4	6	30	15	2	2	49	101	150	15	Tamta Lekishvili
22	Network Security	CSU-C-150	CSU-C-114	5	6	30	15	2	2	49	101	150	15	Sedat Akleylek
23	Internship	CSU-C-122		5	12		15		2	17	283	300	15	
24	Information Security Risk Management	CSU-C-133	CSU-C-114	6	6	30	15	2	2	49	101	150	15	Grigol Mikadze
25	DevOps	CSU-C-126	CSU-C-113	6	6	30	15	2	2	49	101	150	15	Grigol Mikadze

Elective component of the main field of study

1	AI Applications in IT	CSU-E-139	CSU-C-116	4	6	30	15	2	2	49	101	150	15	Mariam Dedabrishvili
2	Algorithm Complexity	CSU-C-121	CSU-C-101	4	6	30	15	2	2	49	101	150	15	Peter Ölveczky
3	Business English	CSU-E-146		4	6	30	15	2	2	49	101	150	15	Lamara Kadagidze
4	Data Analysis with Python	CSU-C-172	CSU-C-108	4	6	30	15	2	2	49	101	150	15	Levan Uridia
5	Foundations of Distributed Systems	CSU-C-120	CSU-C-113	4	6	30	15	2	2	49	101	150	15	Sergei Gorlatch
6	Management	CSU-E-137	CSU-C-114	4	6	30	15	2	2	49	101	150	15	Hakan Ergun
7	IT Infrastructure & Services Management	CSU-E-136	CSU-C-112	4	6	30	15	2	2	49	101	150	15	Hakan Ergun
8	Logic in AI and CS	CSU-C-119	CSU-C-104	4	6	30	15	2	2	49	101	150	15	Temur Kutsia
9	Principles of Economics	CSU-E-132		4	6	30	15	2	2	49	101	150	15	Vakhtang Charaia
10	IT Governance, Ethics & Law	CSU-E-138		4	6	30	15	2	2	49	101	150	15	Nino Amiridze
11	Development	CSU-E-130	CSU-C-117	4	6	30	15	2	2	49	101	150	15	Vasili Nikolaev
12	Software Testing & Quality Assurance	CSU-E-127	CSU-C-117	4	6	30	15	2	2	49	101	150	15	Anriette Michel Fouad Bishara
13	Time Series Forecasting	CSU-E-135	CSU-C-109	4	6	30	15	2	2	49	101	150	15	Nino Demetrashvili
14	Systems	CSU-E-174	CSU-C-113	4	6	30	15	2	2	49	101	150	15	Sergei Gorlatch
15	Machine Learning	CSU-C-131	CSU-C-109	4	6	30	15	2	2	49	101	150	15	Nino Demetrashvili
16	AI for Cybersecurity	CSU-E-162	CSU-C-114	5	6	30	15	2	2	49	101	150	15	Grigol Mikadze
17	AI for Sustainability	CSU-E-156	CSU-C-116	5	6	30	15	2	2	49	101	150	15	Mariam Dedabrishvili
18	Introduction to IT Systems	CSU-E-142	CSU-C-102	5	6	30	15	2	2	49	101	150	15	Lia Kurtanidze
19	Network Administration & Monitoring Tools	CSU-E-144	CSU-C-112	5	6	30	15	2	2	49	101	150	15	Hakan Ergun
20	AI in Smart Cities	CSU-E-157	CSU-C-116	5	6	30	15	2	2	49	101	150	15	Mariam Dedabrishvili
21	AI Startups & Innovation	CSU-E-159	CSU-C-141	5	6	30	15	2	2	49	101	150	15	Tamta Lekishvili
22	Automated Theorem Proving	CSU-E-151	CSU-C-115	5	6	30	15	2	2	49	101	150	15	Tudor Jebelean
23	Systems	CSU-E-163	CSU-C-111	5	6	30	15	2	2	49	101	150	15	Tamta Lekishvili
24	Causal Inference	CSU-E-158	CSU-C-109	5	6	30	15	2	2	49	101	150	15	Mariam Dedabrishvili
25	Cloud Security	CSU-E-161	CSU-C-114	5	6	30	15	2	2	49	101	150	15	Grigol Mikadze
26	Compiler Design	CSU-E-152	CSU-C-115	5	6	30	15	2	2	49	101	150	15	Besik Dundua
27	Critical Thinking	CSU-E-173		5	6	30	15	2	2	49	101	150	15	Furio Honsell

28	Cryptography	CSU-E-149	CSU-C-104	5	6	30	15	2	2	49	101	150	15	Sedat Akleylek
29	Deep Learning	CSU-C-147	CSU-C-116	5	6	30	15	2	2	49	101	150	15	Salome Pirozmanishvili
30	Digital Transformation in Organizations	CSU-E-164	CSU-C-140	5	6	30	15	2	2	49	101	150	15	Lia Kurtanidze
31	Explainable AI	CSU-E-154	CSU-C-116	5	6	30	15	2	2	49	101	150	15	Besik Dundua
32	Analysis	CSU-C-123	CSU-C-104	5	6	30	15	2	2	49	101	150	15	Peter Ölveczky
33	(HCI)	CSU-E-148	CSU-C-117	5	6	30	15	2	2	49	101	150	15	Salome Pirozmanishvili
34	Models	CSU-E-155	CSU-C-109	5	6	30	15	2	2	49	101	150	15	Giorgi Chelidze
35	Symbolic Computation	CSU-E-160	CSU-C-104	5	6	30	15	2	2	49	101	150	15	Anzor Beridze, Mircea Marin
36	Entrepreneurship	CSU-E-184		5	6	30	15	2	2	49	101	150	15	Tamta Lekishvili
37	Security	CSU-E-143	CSU-C-114	5	6	30	15	2	2	49	101	150	15	Vasili Nikolaev
38	Academic Writing & Communication Skills	CSU-E-153		6	6	30	15	2	2	49	101	150	15	Tudor Jebelean
39	Automation Testing Course	CSU-E-134	CSU-C-108	6	6	30	15	2	2	49	101	150	15	Anriette Michel Fouad Bishara
40	Cloud Computing	CSU-E-181	CSU-C-113	6	6	30	15	2	2	49	101	150	15	Grigol Mikadze
41	Computer Vision	CSU-E-177	CSU-C-103	6	6	30	15	2	2	49	101	150	15	Mariam Dedabrishvili
42	Data Mining	CSU-E-167	CSU-C-111	6	6	30	15	2	2	49	101	150	15	Demetre Labadze
43	Distributed Databases and Cloud Systems	CSU-C-125	CSU-C-111	6	6	30	15	2	2	49	101	150	15	Ana Idadze
44	Ethical Hacking & Network Defense	CSU-E-183	CSU-C-114	6	6	30	15	2	2	49	101	150	15	Demetre Labadze
45	AI	CSU-C-179	CSU-C-116	6	6	30	15	2	2	49	101	150	15	Nino Amiridze
46	Functional and Logic Programming	CSU-C-124	CSU-C-104	6	6	30	15	2	2	49	101	150	15	Tudor Jebelean
47	Generative AI	CSU-E-176	CSU-C-147	6	6	30	15	2	2	49	101	150	15	Lia Kurtanidze
48	Systems	CSU-E-145	CSU-C-102	6	6	30	15	2	2	49	101	150	15	Salome Pirozmanishvili
49	IoT & Embedded Systems	CSU-E-165	CSU-C-102	6	6	30	15	2	2	49	101	150	15	Salome Oniani
50	IT in Healthcare	CSU-E-182	CSU-E-142	6	6	30	15	2	2	49	101	150	15	Nino Demetrashvili
51	Systems	CSU-E-178	CSU-E-142	6	6	30	15	2	2	49	101	150	15	Hakan Ergun
52	Models of Computation	CSU-E-166	CSU-C-115	6	6	30	15	2	2	49	101	150	15	Matthias Baaz
53	Processing	CSU-C-129	CSU-C-116	6	6	30	15	2	2	49	101	150	15	Nino Amiridze
54	Neuro-symbolic AI	CSU-E-175	CSU-C-119	6	6	30	15	2	2	49	101	150	15	Besik Dundua
55	Non-Classical Logic	CSU-E-168	CSU-C-119	6	6	30	15	2	2	49	101	150	15	Matthias Baaz
56	Privacy & Data Protection	CSU-E-169	CSU-C-114	6	6	30	15	2	2	49	101	150	15	Grigol Mikadze
57	Programming with Python	CSU-E-170	CSU-C-108	6	6	30	15	2	2	49	101	150	15	Levan Uridia
58	Systems Thinking & Design Thinking	CSU-E-180		6	6	30	15	2	2	49	101	150	15	Furio Honsell
59	Web Development	CSU-E-171	CSU-C-128	6	6	30	15	2	2	49	101	150	15	Vasili Nikolaev

