

Georgian Technical University's
"Students' Engineering Academy"
will resume its work on October 11th

The modern system of education pushes students towards stimulation and evaluation, which they expect and receive from the outside, from society. The youth try to receive rewards and incentives from the outside and ignore their inner voice. As a result, the ability to live creatively is lost, while the primary task of teaching and upbringing is to penetrate the inner world of young people, to discover their own talents.

Our main goal is to help schoolchildren find their way to themselves, to knowledge, to creativity, to peace. We teach young people the forms and methods of teamwork.

Let's think together and find ways to solve problems together

Lectures and seminars are held for the Academy students about modern scientific and technical achievements and still unresolved issues, interesting processes and events. They are given readings from the treasures of Georgian literature; they get acquainted and create science fiction projects.

Enrollment in the SEA is carried out after an interview.

Since the performance and presentation of homework, projects are carried out using office programs, students will learn (improve) working in office programs (Word, Excel, PowerPoint).

Students will learn to use artificial intelligence (AI) devices ChatGPT. Performing practical tasks in the learning process.

The following directions will operate in the current academic year:

Mathematics

- ❖ **For V-X graders:** School program. Fun, sample tasks, examples; still unsolved mathematical problems; Special lessons for seniors; Help with school assignments.
Monthly tuition fee is 50 GEL

Mathematics for university entrants

(Lessons are held three times a week).

Tuition fee is determined by mutual agreement.

Programming

- ❖ **Programming:** Python, C++ and C#.

The course aims to promote the study of algorithmization principles, the development of mathematical and logical skills. This course will teach the most popular and sought-after programming languages in the world.

Our teaching methods are based on international experience in teaching programming and scientific-collaborative research from leading countries.

The learning process will take place in an interactive mode in a computer laboratory. The courses are open to both **schoolchildren** and any **young person**.

After completing the courses, the youth can find employment in both private and public structures around the world.

Meta-programming language Python

Installation of the basic programming environment PyCharm. Mastering initial skills in this environment. Solving simple and intermediate-level tasks in the Python meta-programming language. Building graphs and diagrams for analyzing and visualizing various types of tasks using the Matplotlib library. Building small-simple games.

Programming language C++

Installation of the basic programming environment **Microsoft Visual Studio**. Mastering initial skills in this environment. Solving simple and intermediate-level tasks in the C++ programming language. Studying the principles of writing simple game code.

Object-oriented programming (OOP) language C#

Mastering initial skills in the Microsoft Visual Studio environment. Solving simple and intermediate-level tasks in the C# programming language. Studying the principles of writing simple game code.

Learning outcomes:

- ❖ Students will develop algorithmic, logical and mathematical thinking. They will be able to solve simple games and complex tasks.

Students of grades IV-VII, VIII-X, XI-XII will be admitted to the programming course
Only after an interview with their parents.

Those wishing to study at the SEA can send a message to the following address: ertadmsa.gtu@gmail.com (last name, first name; class; phone number; e-mail address; course name).

Meetings with those wishing to study at the SEA are scheduled for:

September 27, 10:00 - 12:00.

October 2, 16:00-18:00.

October 11, 10:00 - 12:00.

GTU, VIII Academic Building. III Floor, Room 313 B.

Online meetings are held with SEA students in addition to classroom lessons.

For additional information, please contact:

Prof. Inga Abuladze

Tel: 591 13 12 97

Marika Bregvadze, Manager

Tel: 558 14 89 49

E-mail: ertadmsa.gtu@gmail.com

Address: Tbilisi, Georgian Technical University, 77 Kostava str. VIII Academic Building, 3rd floor, room 313b, Center “Erdad”.