



ÖVEGES

STUDENTLAB



The Öveges Student Laboratory was founded in 2015 at the Piarist School Kecskemét. It is part of the Selye János Laboratory Network as the leader of a consortium of 4 student laboratories in the region. The hosting school is the initiator and the seat of the Association of Student Laboratories in Hungary.



Our student laboratory is operated in a school that has advantages and challenges

advantages:

- the pedagogical expertise is present
- the activities of the student lab and the school have influence on each other, they help each other to develop
- the teachers of the school can be involved in the work of the student lab - even the teachers of the guest students can participate in the projects, the work in the lab has an impact on their pedagogical development as well
- the activities of the school lab are more integrated in the educational system

challenges:

- the owner and operator of the lab is not directly motivated in open activities
- the staff of the lab are the teachers of the school, there is a lack of capacity - lack of teachers
- involving financing, collaborating partners (industry, higher education) is difficult



International Student researcher groups

With this initiative we are trying to connect students from different countries having the same interest in STEM to start a common program: ask questions, do some research, discuss... They are working locally, cooperating online. The first group was launched in February, they are dealing with air and water quality.

- The students applied individually, they got the information from their teachers
- We use the network of our school to reach the students, we have contact with their teachers
- The mentors of the groups are our teachers, we are trying to involve the partner teachers as well
- The initiative is open for other countries, schools, student labs, topics. At the moment participants are from schools from Spain and Hungary (Granada, Soria, Zaragoza, Kecskemét)
- We have parallel bilateral projects with schools from Spain (Olot, Tafalla) using Sense:box

Activities in the school year 2023/2024 as a student lab (activities for own students not included)

- 287 hours of activities involving 1625 students
- "Researchers' night" program
- training for teachers of partner schools for the projects in the lab
- participating in workshops, conferences (Selye János School Laboratory Network, Lernort Labor Heidenheim...)
- Working on the concept of the Mobile Lab of the Laboratory Network, taking part in pilot events
- Hosting training courses of the Laboratory Network (Microscope in Action/ EMBL; Sense:Box)

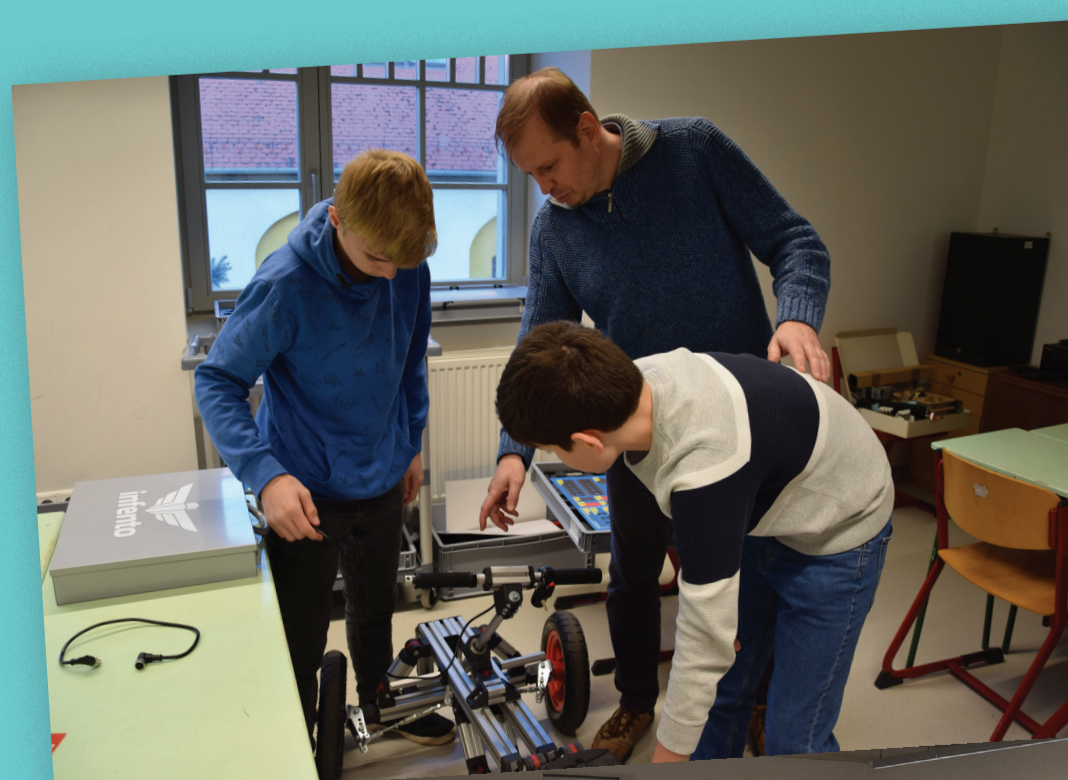
The activities of the Öveges Student Laboratory are basically the classical School Lab activities, hosting school classes. In the last two years we have launched open afternoon activities and developed new ones, like

- trainings for teachers
- using the Mobile Laboratory of the LabNetwork to reach schools, participants of different events
- free afternoon courses for students in technology, science, IT, like
 - Infento - building electric devices
 - CNC-Programming of Unimat machines
 - Microbiology, physiology
 - Environmental chemistry
 - "Microscope in action (fluorescent microscopes project of EMBL)
 - "Analytical engineer academy" - in cooperation with BOSCH
 - 3D printing
 - Criminalistics for students
 - Robotics
 - Geography - stones and minerals
 - Sense:Box projects



Further plans

- offering Erasmus+ courses
- involving the Media-workshop in the activities
- developing international cooperation of students and teachers, using Erasmus+ resources



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