

**MINUTES OF THE 1<sup>ST</sup> LEARNING, TEACHING AND TRAINING ACTIVITIES MEETING**  
12<sup>TH</sup> – 17<sup>TH</sup> MARCH 2018  
CRISTURU SECUIESC / ROMÂNIA  
KA2 “**KEY TO THE FUTURE - COLLABORATION IN ROBOTICS FOR MODERN**”  
2017-1-HU01-KA219-036001\_

The 1<sup>st</sup> learning, teaching and training meeting of the Erasmus plus KA2 project “**Key to the Future - Collaboration in Robotics for Modern**” was held between 12 - 17 March, 2018, at Liceul Teoretic „Orban Balazs” in Cristuru Secuiesc / România.

The meeting was attended by delegations from Greece, Hungary, Italy, Lithuania and Romania.

The host organisation of the 1st learning/teaching and training activities meeting was Liceul Teoretic „Orbán Balázs”, Cristuru Secuiesc, Romania.

On Monday, 12 March 2018, at 10:00 am. there was a Welcoming Ceremony at the school’s Conference Hall. It was opened by Levente Demeter , the school’s headmaster.



After a short introduction to the host school, each delegation presented their country, the city they came from and their school. These were made with the use of PPT presentations and videos. The first day was dedicated to getting to know each other and to planning. After the opening ceremony the students attended a set of teambuilding activities. In the meantime the teachers had a meeting to discuss the activities scheduled for the rest of the week and a few organisational issues related to future exchanges.



Tuesday was a day of learning. The students from the host school presented the prototype of Lego Robots, the main features of the sensors, then, in groups of four, they solved different tasks to test these features. After the two-hour learning session, we visited SZEL-MOB, a local furniture factory, where, besides gaining insight into the general manufacturing process, the students were able to observe the use of innovative technologies with the help of computerised CNC machines. In order to familiarise the students with the local culture and to enhance their interpersonal and communication skills, a treasure hunt was organised, on which the students had work throughout the week in mixed groups. The groups were formed and the tasks were handed out in the afternoon. The rest of the evening was spent sharing and discussing experiences related to education and culture in the different countries, allowing the participants to get to know each other at a deeper level.



On Wednesday there was a study trip. One of the project's objectives is gathering information on relevant training, research and job opportunities within the countries involved in the project, and putting them into a European perspective. These are the prerequisites for learning in an EU country, for getting different certificates acknowledged, for finding employment or obtaining work permits. Our visit to the Robotics Department of the Sapientia University in Targu-Mures served this end. Here the students and teachers were introduced to the latest developments in the field of robotics, while obtaining deeper knowledge of the educational system in Romania.

On the way to the university and back we stopped to visit the salt mine in Praid and the Museum of Straw Hats in Criseni. The day ended with a festive dinner attended by all the participants in the project meeting.



Day four, Thursday, started with a two-hour learning session, where the students were able to improve their robot-programming skills. They learned how to follow a line and how to avoid obstacles. The students were so involved that we decided to include a third robotics activity on Friday. Following the robotics session, we attended the celebrations of 15 March, to commemorate the Freedom Fight of 1848. All of the hosts and the guests took part in a procession and in the cultural programs held in the afternoon.



Friday was mainly about assessing and evaluating the week's activities. After a two-hour robot sumo-wrestling competition it was difficult to make the students let go of robots and make them return for the feedback session. During this final meeting, the multinational groups presented the way they solved the tasks included in the treasure hunt, which proved an enjoyable way of learning about the town and about each other's culture.

This was followed by sharing the experiences of the week spent in Romania, reflecting on both the gains and the shortcomings. Closing remarks were addressed by the organisers in the host school as well as the project coordinators.



The week ended on a positive note, the participants feeling that they have spent the week in a useful and enjoyable way.

School Headmaster  
Demeter Levente

Project Coordinator  
Simó Margit