



## **REPORT FOR ITTP-21CS LTTP2 – KAMNIK**

### **11.3. - 15.3.2019**

### **“Integrating digital instruments in the teaching process”**

#### **1. Monday 11/03/2019**

Welcoming the participants took place in a special designated room, after which there was a tour of the institution in order to see the facilities and the rooms the activities were going to be carried out the next days. Thus, the participants were welcomed by teachers from the Slovenian high school who showed them the Informatics, Chemistry and Physics lab as well as the library of the school where there was a bulletin board to promote the project. The sports hall, the Arts workshop as well as other places for students to spend their free time were also visited.

At 10 o'clock started the ceremony of welcoming the participants presided by the director of the institution, and the partner institutions showed a multimedia presentations describing their institutions, regions as well, their history and the ITC applications the four partners use in the teaching/learning/evaluation activities. At the ceremony participated a big number of Slovenian teachers and students.

Thus, the Romanian partner presented examples of using within the didactical activities some applications such as: Slack, Padlet, Coggle, WordArt, AEL, Google docs/presentation/forms/calendar/sites. The Portuguese partner showed a presentation of many of the applications and hardware equipment used at making cadastral maps, a drone, but also the Arduino devices and the proper software.

The Turkish partner made a presentation of several robots made by teachers and students and the Slovenian partner made a presentation of the hardware equipment used, the Moodle platform and the way of using it, the Cisco e-learning platform, as well as other applications and devices which can be used in order to increase the level of communication and collaboration between students.

The students from the Slovenian partner made a presentation of the results obtained in another Erasmus+ mobility project.

In the afternoon, the participants had a class observation at an English class in which the teacher used the smartboard, smartphones and the application Kahoot (kahoot.it).

After that there was a press conference, where the participants answered some questions on different topics of the project. The reporters were the students of the Slovenian partner.

At the end there was a workshop in which the Romanian partner presented the draft of the First chapter from the Guide of good practices and the conclusions taken after the researches made.



*Welcoming meeting in a special designated room*



*Press conference with students*

## **2. Tuesday 12/03/2019**

In the first part of the day the participants learned to work with the application for smartphones Actionbound and participated in identification some historical and cultural attractions in Kamnik, guided by Slovenian students.

The activities continued with a visit to the Town Hall where the participants were welcomed by the mayor of Kamnik and the discussions carried out were related to developing European financing projects but also the interest of municipality in the activities with ecological character and the green tourism in the area.

After that, we participated at a presentation held by Amela Stambolic Beganovic from the National Institute of Education in Slovenia on "Improvement of Teaching and Learning through the use of ICT". Here we had a discussion on the interactive materials and the way we can make them more interactive, on i-textbooks and the way we can integrate ICT in the teaching act. We learned to use the Mentimeter platform to make interactive presentations, but also other applications which can be used in creating digital content. The activity was attended also by the teachers from hosting school who are involved in the project IUO Pedagogika 1:1 (ILE Pedagogy 1:1) and in the project POKIT as well. At the end, there were free discussions on increasing the level of interactivity in the teaching process.

In the last part of the day the participants analysed questions from the surveys on the appreciating the level of using ICT in an institution. Thus, one of the directions was that the questions for students, teachers and leadership should be approximately the same, so that the answers could be correlated. In this way, at the end of the day the participants finished evaluating the questions from the 3 surveys, starting the stage of correlating the answers. Each questions was marked on a scale from 1 to 4 and "I don't know" and the participants discussed the aspects related to their correlation in accordance with the directions of analysing.





*Actionbound app guided by students*



*In the Kamnik town hall*



*Discussions with Kamnik mayor*



*Presentation held by Amela Stambolic Beganovic*

### **3. Wednesday 13/03/2019**

The first part of the day was dedicated to a guided visit to the main cultural and historical sights in Ljubljana, where participants were directed by the group of Slovenian students. The second part of the day was dedicated to the workshop "Modern pedagogical methods" in which the participants worked alongside the Slovenian teachers at making mind maps, using some multimedia applications for editing and making some applications on testing the students using ICT. Thus, the participants made models of tests in the application Plickers which were evaluated to analyse the advantages and disadvantages and to establish areas of using them. The activity was attended also by the teachers from hosting school who are involved in the project POKIT and the teachers and headmasters of the Slovenian high schools which are involved as development or implementation schools in the project IUO Pedagogika 1:1 (ILE Pedagogy 1:1).

In the second part of the day, the discussions were related to correlating the questions from Chapter 2, additional questions being added so that by their correlation to be found answers to a series of questions which will facilitate the understanding of the needs of a school regarding the use and integration of ICT in the educational process.

After the discussions the following were agreed:

- Chapter 1 will be finalised by the Romanian partner
- Chapter 2 will be made by a joint team consisting of Carla Silva (Portugal), Marius Buzera (Romania), Janez Klemencic (Slovenia) and Carlos Caeiro (Portugal).
- Chapter 3 will be made by a joint team coordinated by Nuno Proenca and teachers from the Romanian and Turkish partner.
- Chapter 4 will be made by a joint team coordinated by Carmen Vulpe and consisting in Ramona Uscatescu, Renata Capuder Mermal, Rafaela Kozlakar and Gabi Dernulovec. Romanian partner as the most experienced in the environmental topics will prepare a proposal of the optional nature protection curricula.

The coordinators of these teams will establish a weekly online conference program. There were discussed aspects regarding dissemination, monitoring activities and the outcomes of the project, Mobility tool and eTwinning platform. It was agreed to continue to upload the materials on Moodle in order to be instantly used by the participants.





*The common workshop Modern pedagogical methods*



*Plickers app in action*



*Late staff meeting*

#### **4. Thursday 14/03/2019**

In the first part of the day the participants alongside Slovenian teachers and students made a technical visit to the Waste Water Plant in Domzale, where in the end there was a roundtable regarding the importance of water in the nature - everybody agreed on the importance of the optional curriculum on that topic to be designed in the project.

The second part of the day was dedicated to some field workshops in the Planica area where artificial and natural snow samples were collected, properly labeled and were taken to be analysed, but also temperature was taken using digital devices and pH using special paper. The data was recorded on special worksheets and correlated with the results obtained with a mobile meteorological unit Pasco. For this, the participants used a smartphone connected to a tablet on which a meteorological application Sparkvue was installed, and mobile meteorological unit connected by Bluetooth to the tablet. Thus, the parameters necessary to accurately identify the location via GPS, as well as other important parameters such as temperature, air pressure, wind velocity, humidity were obtained.

After this, there were collected water samples from the lake Bled area and they were recorded, labeled and analysed in the aspects of organoleptic procedure, temperature, pH and through



the use of digital mobile devices and specific applications there were identified with a high precision the latitude, longitude and other meteorological details.

At the end the samples collected were prepared for transport and were transferred and stored in the Chemistry lab of the Slovenian partner. Due to weather conditions the participants could not use the astronomical observatory, but there were discussions about its using in teaching-learning and correlating the results obtained.



*Visiting Waste water plant in Domzale*



*Recording for the national TV broadcast in Planica*



*We all jumped in Planica*

## **5. Friday 15/03/2019**

In the first part of the day the participants split in the groups and worked alongside with the Slovenian teachers at Chapter 2, Chapter 3 and Chapter 4 of the Guide. They were followed by a debate in which each group presented its work in the final form, as well as the way the collaboration activities will be carried out in the future. Thus, the conclusions were that the 3 surveys to identify the level of using ICT to be completed in the next month, and in a video conference to be presented and discussed with all the parties involved in the project. The group responsible for Chapter 3 will make a presentation of several applications and the teachers of technical subjects to later offer feedback and choose the applications they need. The teachers responsible for writing Chapter 4 set the structure of the optional curriculum and distributed tasks.

In the second part of the day the participating teachers accompanied the high school students who organised a protest against global warming.

Also, the participating teachers alongside Slovenian teachers and students participated in class observance activities at Chemistry classes in which the lab work was mixed with ICT and internet applications work united in the Nearpod platform using the smartboard, tablets and smartphones supported by Padlet and Google Docs apps and Phillips 66 Reunion collaborating method. Some teachers were present in execution from the hosting school project POKIT.

At the end of the day, in the conclusions session, the quality of the activities carried out was acknowledged, there were taken responsibilities and tasks were distributed, there were discussed issues on the next visit at the Turkish partner.

There were discussed issues on promoting the project activities within each organisation and community, participating with the materials obtained during the project at different exhibitions, conferences, symposiums, promoting them on the eTwinning platform, filling the Mobility tool application and signing different partnerships in order to develop and improve the project activities.

In the evening, the Slovenian partner organised a festive dinner, for creating bonds and relaxing.





*Split group work*



*Chemistry lab activity*



*Nearpod platform on the tablets for chemistry lab work support*

Written by Marius Buzera, project coordinator