



## Final Report

Erasmus+ Programme: **2020-1-RO01-KA116-079373**

Project Title: " **Erasmus +, Opportunities and Challenges, 2020**"

Beneficiary: Liceul de Arte Plastice, Timișoara, Timiș County, România

Sending organisation: Liceul Tehnologic Decebal, Drobeta Turnu Severin, România

Receiving Organisation: INSA- Instituto Nacional de Saúde Doutor Ricardo Jorge, Lisbon, Portugal.

Participants	
BĂRAN ADELINA-ALEXANDRA	PÎRVULESCU ALEXANDRU CONSTANTIN
CERBU IONUȚ –GABRIEL	PLOPIȘ ROBERT PETRE
CIOPLEA ALEXANDRU CONSTANTIN	RĂDULEA ALEXANDRU CĂLIN
CREȚESCU GRIGORE-BEBE	SCURTU GEORGIANA TEODORA
IANCULOVICI RIANA ALICE	TABACU CLAUDIU MĂDĂLIN
JOSCEANU MIHAELA KATERYNA	VIAȘU FLAVIA CRISTIAN
LĂUTARU-PETROVICI DENIS CRISTIAN	prof. Ghitoiu Ana Mihaela
PETCU YANNIS PETRIȘOR GABRIEL	Prof. Raducan Dan Florentin

Between 15 November 2021 - 03 December 2021 the team of CASA DA EDUCAÇÃO in cooperation with INSTITUTO NACIONAL DE SAÚDE DOUTOR RICARDO JORGE received a group of students from Romania in the frame of Erasmus+ programme. During the project named "Erasmus+, Opportunities and Challenges, 2020" we hosted 14 participants and 2 teachers. The training programme was addressed to VET learners in the fields of Environmental protection and its objective was to improve the participants' knowledge and skills in the field of **Chemical analysis**, to learn about workspace organisation and to operate according to workspace rules as well as hygiene and safety regulations. In addition, the participants were to improve their team workings skills and team functioning.

The group arrived at Lisbon on 14 th November 2021 and was welcomed at the airport by our Director of Education. Due to the Covid-19 pandemic, CASA DA EDUCAÇÃO has taken special precautions and developed a sustainable hygiene concept.

The focus of the project 2020-1-RO01-KA116-079373 was the acquisition of practical knowledge in vocational training. For this purpose, the students completed their internships at INSA. In addition to practical work experience, all courses focused on informal learning, the acquisition of social skills and the development of soft skills. At the beginning of the internship, the participants were introduced in detail to the schedule of their internships and the organisation of their stay at Lisbon. At their workplaces the participants were informed about the special health and safety regulations in the workshops, health protection at work and hygiene regulations at INSA before they started work for the first time.

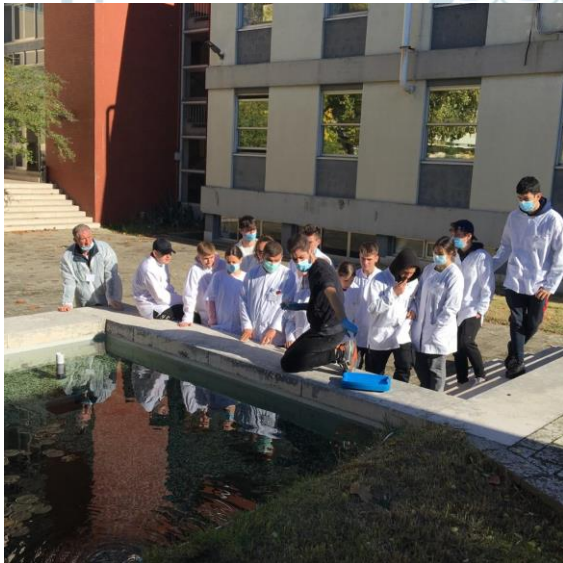




The VET learners worked in the environmental protection department, on the labs to perform chemical analysis. The focus points of the internship were as follows:

- Identification of physical and chemical indicators of water samples
- Identification of cations by flame staining and closed tube heating.
- Identification of cations by pearl formation / oxidative melting.
- Identification of cations (Analytical Group I, II and III)
- Identification of anions, carbonate ion ( $\text{CO}_3^{2-}$ ) and sulphate ion ( $\text{SO}_4^{2-}$ )
- Gravimetric determination of iron ( $\text{Fe}^{3+}$ ) and barium ( $\text{Ba}^{2+}$ ) ions
- Volumetric determination of  $\text{Ca}^{2+}$  ion in the presence of murexid

In addition, the participant was introduced to professional standard operating procedures and regulations as well as learning about health and safety measures and accident prevention. They also learned about wastewater treatment technology at the Aquas de Tejo station.



A final assessment took place on the last day of the internship. With the skills and knowledge they gained and improved over the three weeks of training, all participants passed the final exam successfully. The students' tasks were related to the activities carried out in accordance with the Learning Agreement.

After the presentations and instructions of the tutor, the students were always given the opportunity to apply their knowledge in practical tasks.





During the whole programme, the trainers and teachers regularly checked and reviewed the students' performances and provided feedback.

The students completed their daily individual work sheets as well as the weekly evaluation sheets. All of the students improved their competences and knowledge in the field of performing chemical analysis. All in all, the tutors of INSA were satisfied with the students and their cooperation and performance in these three weeks. All participants successfully took part in the programme and performed with very good results.

To deepen the participants' knowledge and social skills, the participants completed a special information and visit programme to deepen their knowledge of history and culture in Portugal.

Cultural activities, Portuguese cities & places visited during the programme:

**FÁTIMA SANCTUARY** | <http://www.santuario-fatima.pt> : The Sanctuary at Fátima was constructed over time in or near the area of Cova da Iria, where the three children witnessed the Marian apparitions of Our Lady of the Rosary (later known as Our Lady of Fátima).

**JERÓNIMOS MONASTERY**, the "jewel" of the Manueline style This exclusive Portuguese monument combines architectural elements from the Gothic and from the Renaissance periods, joining them with a royal and naturalist symbology that makes it unique and honourable.

**MONUMENT OF DISCOVERIES** The Monument to the Discoveries (in Portuguese "Padrão do Descobrimentos"), created by Cottinelli Telmo and the sculptor Leopoldo de Almeida, was built in 1940, in a temporary form, as part of the Portuguese World Exhibition

**KNOWLEDGE PAVILLION** | <https://www.pavconhecimento.pt/> The Pavilion of Knowledge - Ciência Viva Science Centre is a scientific and technological space and is located in the building used during 132 days for EXPO'98, and was one of the most emblematic thematic pavilions - Pavilhão do Conhecimento dos Mares [The Pavilion of Knowledge of the Seas].





### SUMMARY OF THE PROJECT

The objectives of the project **2020-1-RO01-KA116-079373** were fulfilled. The participants gained international professional experience and were able to familiarise themselves with the work organisation in Portugal and the requirements of the current international labour market. The students could also develop essential personal, social and linguistic skills.

All students were interested in their work tasks and integrated themselves into the daily work processes. They were able to expand their practical knowledge and apply theoretical knowledge in practice. In the framework programme they learned interesting facts about cultural characteristics, local history and current international developments. With this knowledge they gained a deeper understanding of the future developments and possibilities in the European Union.

Casa da Educação is satisfied with the development of the participants. All were motivated and interested to learn. The tutors of the practices were also satisfied with their professional work and personal development. We wish the teachers and students of Liceul Tehnologic Decebal, Romania all the best for their personal and professional future development.

We will be happy to welcome them back again for further courses and projects.

Lisbon, 03rd of December 2021.

Prof. Rosario Pires, director

