

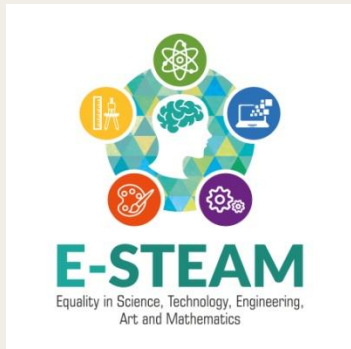


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○ E-STEAM erasmus project

○ newsletter 05

○ 12-2020



## E-STEAM: Equality in Science, Technology, Engineering, Art and Mathematics

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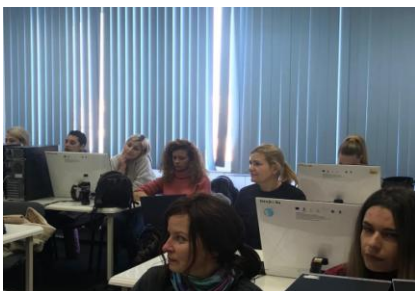
## Newsletter 05

### E-STEAM TRAINING PROGRAMME

#### TRAINING PROGRAM IN PORTUGAL

#### TRAINING PROGRAM IN GREECE

In Greece, during the piloting phase of the Training program, teachers from public and private schools registered on the ATHENA platform in order to check their knowledge on the STEAM education and evaluate the training material that partners have developed. The total number of the participants was 12 teachers from the first educational level. The feedback that we have received during the piloting phase of the training program was very positive. During the national lockdown of the Covid-19 teachers managed to educate the content through online call with the support of the partners, because the kindergartens were closed. Teachers will include the activities of the lesson plan in their program for the next years. They want to empower girls to recognize the STEAM sector.



On September 25th, in a face-to-face session, the E-STEAM Training Program was presented by teachers who are developing the project to a group of teachers from the Silves School Group. During the presentation, the teachers were very receptive, very curious and participative and, right away, they mentioned that it was a very current and interesting topic. In view of the dynamic activities, there was a dynamic debate on gender stereotypes. In the end, they were invited to register on the ATHENA platform, download the documents that make up this Training Program and apply it with their students. Teachers who showed interest in the activity, but were unable to attend the session in person, were sent, by e-mail, a description of the program and instructions for registering on the said ATHENA platform.

The remaining sessions were held online, due to the pandemic situation that Portugal and the World are going through.

The Training Program was applied during the months of October and November.

Sixteen teachers from the Silves School Group registered, therefore, on the ATHENA platform, thirteen completed the training program and applied it to their students. **In total, the program was applied to two hundred ninety-one students from fifteen classes.**



On the 20th of November, the last face-to-face meeting was held that allowed the exchange of experiences resulting from the application of the Training Program.

The opinion of the teachers, regarding this Training Program, was very positive. In general, the teachers considered the resources available (lesson plans and activities) to be very interesting and useful for the implementation of these activities in the classroom. After implementation, a large percentage of teachers reported that, contrary to what they thought, students have less gender stereotypes than adults. Finally, the teachers mentioned that it would be important to continue this work by inserting it in the school curriculum, for example, in the classes of "Cidadania e desenvolvimento". Following this situation, the Pedagogical Council of the Silves School Group will be asked to include the program in the "+ Saber" discipline, a school supply discipline.

## GENDER EQUALITY IN COUNTRIES: MYTHS, STEREOTYPES, REALITY IN BULGARIA

This was the topic of the multiplier events held on 10 and 30 September 2020, where the intellectual products of the project "Equality in Science, Technology, Engineering, Art and Mathematics /E-STEAM/", funded by the Erasmus + EC program, were presented. The events included panel meetings with teachers and lecturers from the University of Ruse, as well as with successful professionals from various fields of business.



In fact, they proved to be a living example of STEM and made young people approach them and be inspired by sharing experiences and achievements, as well as their specific achievements. Applause erupted at the beginning of the virtual address to the participants by our Spanish project partners, delivered by Nela Gomez.

The working program along the seminars included topical presentations connected with the identification and managing with stereotypes in the professional realization of girls in the domain of STEM.



Main accents were: provision of educational and mentor programs, educational online platform for school teachers and university tutors, the secondary - higher education connection and the labor market in the domain of STEM. The participants had their own ideas on the table to do with sustainable use of the projects products in the future.



## FUE-UJI TRAINING PROGRAM

### PARTICIPANTS FEEDBACK

The E-STEAM Teachers training programme has been carried out during the month of October and November with 4 online sessions with the teachers and through the Athena Platform.

The sessions were finally celebrated only online because of the pandemic situation and the safety and comfortability of the participants, which preferred to participate in a totally online course. A total of 11 teachers have benefit by this course and its resources. The participants of the course really appreciated the learnings and the resources that were given to them in order to implement these activities in class. All of them considered the tools and resources interesting and necessary, since they don't receive any training in the field of equity and STEM in any other way. That's why some of them are interested in receiving more training in this topic through future trainings or projects.

## E-STEAM PARTNERS

*name and cont@ct*

### Agrupamento de Escolas de Silves - PT



[www.aesilves.pt](http://www.aesilves.pt)

### Leonardo da Vinci First Private School - BG



[www.pslleonardo.com](http://www.pslleonardo.com)

### Institute of Entrepreneurship Development - GR



<https://ied.eu>

### Fundación Universitat Jaume I Empresa - ES



[www.fue-uji.es](http://www.fue-uji.es)

### Dimitrie Cantemir Universitatea – RO



<http://www.en.cantemir.ro>

### Fundatia Professional – RO



[www.professionalcentre.ro](http://www.professionalcentre.ro)



## E-STEAM MULTIPLIER EVENTS IN PORTUGAL

The Portuguese team, after some contacts in order to hold the face-to-face event in three School Groups and two universities, due to the covid only managed to hold a multiplier event in person at the University of Algarve, on November 17th, for 31 future teachers, from pre-school to basic education, and for their teachers.

The event was very attended and the future teachers carried out some activities of the E-STEAM training program, which led to reflect on gender stereotypes in the STEAM areas and the consequences that they, in the teaching context, can influence and condition the choices from the students. They also got to know the E-STEAM project, all its phases and the various materials built within the project. A highlight of the project was to watch the testimonies of the mentors and students who participated in the mentoring program, as they touched on very important aspects that educators must take into account in their daily lives, namely, in promoting the confidence of students so that they make their choices according to their motivation and interests and not conditioned by gender stereotypes in relation to any discipline or curriculum area.



Carolina - Matilde - Inês

These future teachers were also instructed to enroll in the online E-STEAM training program, available on the Athena platform. The Portuguese partners held two more multiplier events in November 2020: on November 7, the first, integrated in the XXIII National Meeting of Pre-School Teachers, 1st and 2nd Cycle of Basic Education, organized by the Association of Teachers of Mathematics.

In this meeting, teachers and researchers participated in the session / workshop; the second online event, held on the 27th of november, was attended by teachers and directors from four groups of schools in Portugal, a member of the national agency of the Erasmus + program and a representative of companies linked to the STEM areas. In these sessions, those involved could perform some tasks of the training program and get to know and discuss the products of the E-STEAM Training program. They were also invited to sign up for the E-STEAM Training Program available online on the Athena platform, which was presented and explored by the facilitators of the sessions. In any of the sessions, the quality and importance of the materials produced within the scope of the project were highlighted by those present, which should be widely disseminated.

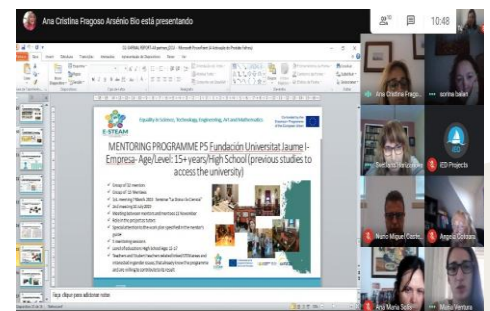
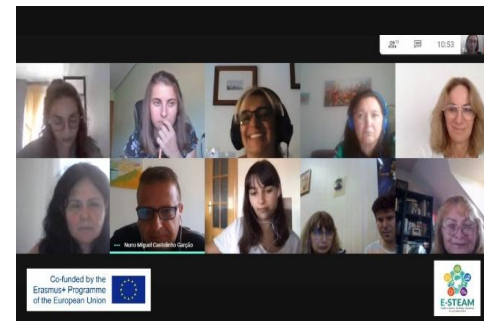


## MONTHLY ONLINE MEETING AND LAST PROJECT TRANSNATIONAL MEETING

The last transnational meeting in Ruse, Bulgaria, was canceled due to the pandemic and replaced by an online meeting of E-STEAM partners to be held on January 15, 2021.

During 2020, monthly meetings were held to evaluate the latest project's results. All the deliverables and dissemination actions were commented and completed.

This was the way to face the constraints that the pandemic imposed on the project.

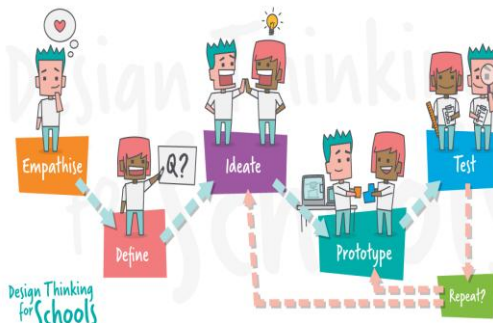


## 'DESIGNATHON' - Professional Foundation Romania

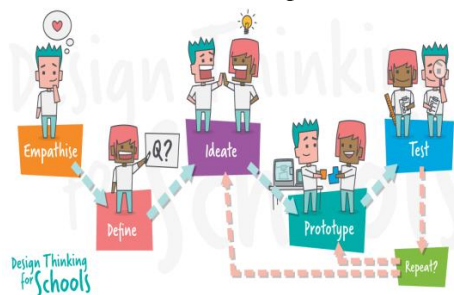
In spite of the fear of carrying out this challenging activity it seemed that if well planned could bring new perspectives for teachers and enjoyable activities for students. Promoting the Design Thinking as a method which can be applied in lots of projects and interesting activities was accompanied by creative and critical thinking abilities developed during this DESIGN + MARATHON.



There were two phases of the event: an online one and the prize awarding has been done in person as we wanted to involve more students. We set technical milestones, and teams' support. One-on-One communication was crucial: the teams would feel at home if they were aware of a back up.



The Vocational Art School ICT teachers and the project team expertly managed the nuts and bolts of the event – from planning to promoting to recruiting to coordinating with participants to announcing the winners and distributing the prizes – so that we could focus our efforts on the teams projects and if they applied Design Thinking approach and which ones deserve to be prized.



They even identified them being in the same team by wearing costumes or having as a background the national flag. Well done students and your teachers who guided you into this new way of carrying out projects.

## FINAL MULTIPLIER EVENT IN SPAIN

The FUE-UJI, through its Office of European and International Projects (EuroFUE-UJI) has presented the E-STEAM project, for the promotion of equality in STEM, at the E-STEAM Multiplier Event, this Monday, December 21 at 9:30 am in the Assembly Hall of the FUE-UJI. The event has announced the progress of the project and results obtained after its two years of implementation, in addition to hosting a debate on the promotion of equality in STEM (Science, Technology, Engineering and Mathematics) careers.

The E-STEAM project is a project co-financed by the Erasmus + program of the European Union, with the main objective of establishing synergies between schools and the labor market towards the creative and meaningful participation of girls in STEAM education, through a mentoring program, as well as developing a virtual platform as a resource center for practical and innovative learning solutions that complement the school curricula.



## MULTIPLIER EVENT IN “DIMITRE CANTEMIR” UNIVERSITY

Dimitrie Cantemir University have organised the Multiplier event E-STEAM in DECEMBER 21, 2020. The event begun with registration of participants and provision of COVID prevention measures 19. The welcome message was addressed by Mr. Rector prof.univ.dr. Simionescu Mircea. The presentation of E-STEAM project presentation has been made by Balan Sorina-Mihaela partner coordination. A special point has dissemination of the Intellectual products - mentoring activities was presented by prof.univ.dr. Tomuletiu Adriana-teacher in project. Next issues has opinions of mentors related to the project- Mentors: Solovastru Alina, Chira Cristiana. Other results of the project and aspects of dissemination activities was presented by Balan Sorina-Mihaela. He propose the follow-up-Counseling in STEAM by psih. careers. Cotrus Andrei. Other point including sustainability of the project - it has been propose by professional training courses - Moldovan Ioan. In the end of event all participants have interesting discussions in special about the stereotypes.



## AFTER PILOTING THE E-STEAM TRAINING PROGRAM - HOW TO BE SUSTAINABLE?

FPS Leonardo da Vinci, the lead organization for IO6, analyzed the results of the post-pilot evaluation and proposed guidelines for the operation of the project products after the Erasmus + funding period.

Each partner proposed a sustainable economic model for the global learning solution through:

- 1 - Taking into account the opinion of the Support Board on the usability of the e-learning platform and methodology
- 2 - Collecting suggestions to support the platform after the end of the EU funding period.

FPS Leonardo da Vinci summarized the information and provided a sustainability plan based on the feedback from the partners so that the project could be disseminated at national and European level after 2020.

## THE LABOUR MARKET TODAY AND GENDER EQUALITY

On December 8, The Institute for Entrepreneurship Development held free online Event: The Labour Market Today and Gender Equality!

The online event aimed at promoting gender equality through the orientation of girls in the fields of science (STEM - Science, Technology, Engineering and Mathematics), mentoring and educating young people for easier employment, in the framework of the funded European projects E-STEAM Erasmus Project and #Swirl.

## LINKS - E-STEAM



### E-STEAM Website

<http://e-steamerasmusproject.com/>



### E-STEAM Facebook

[facebook.com/ESteamErasmusProject/](https://facebook.com/ESteamErasmusProject/)



### E-STEAM youtube channel

[youtube.com/channel/UCuZz0IRIO-k0cvemLsZbwMA](https://youtube.com/channel/UCuZz0IRIO-k0cvemLsZbwMA)



### E-STEAM Mentoring Programme

[shorturl.at/wEXZ2](https://shorturl.at/wEXZ2)



### E-STEAM Training Program

<https://athena.entre.gr/en/courses/esteam>

Free access to all material

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