



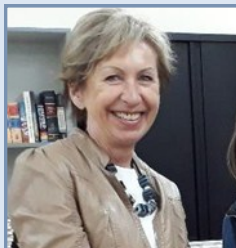
STEM in Education

Number 1

08.01.2020

Coordinator's Words

"As of September 2019, we have started a new Erasmus+ KA 202 project "STEM IN EDUCATION" with our well-established partnership which consists of 6 schools from Czech Republic, Norway, Italy, Estonia, Cyprus and Turkey. In the next 2 years, we will be working together with teachers, experts and students to improve STEM education (Science, Technology, Engineering, Math) in our schools. Through our project, we aim to motivate teachers of STEM to use multidisciplinary and project-based teaching approach with the support of ICT. Such methods, we believe, will enable students to pursue science education and become the next generation of innovators."



NEWS FROM PARTNERS

ITALY

"In these first months we defined our project team: Loris Sinigoi (Chemistry teacher), Leonarda Raffoni and Laura Andreatta (IT teachers) plus Cristina Mosna and Francesca Mazzini (Maths teachers). We believe that our different subjects can be effectively combined in STEM multidisciplinary lessons and we are ready to involve other STEM teachers of the school. Class experimentations will start soon, in order to involve our students from the early stages.

One of our first tasks has been contributing to project management with the definition of Quality Assurance documents and operations, an important responsibility that we have in the project.

We also opened the "STEM in Education" project section in our school website, available at the following link:
<https://www.buonarroti.tn.it/index.php/home/progettiattivitanew/internazionalizzazione/stem-in-education.html>"

Leonarda Raffoni, Dipartimento di Informatica - Istituto Tecnico Tecnologico M. BUONARROTI

TURKEY

"We are very excited to be part of this project. 8 teachers have already joined to the project team. We also started STEM training in Balıkesir city center for our students. About 60 of them has participated in it so far. As a result, our students have better understanding of the reasoning and methods, and tools behind STEM education and got a sense of its place in everyday life. We have visited science and engineering departments in Balıkesir university as well to inspire our students in studying and working in STEM related areas in the future. There is a great interest among our students to participate and practice STEM training and project related works locally and internationally. We are very happy to see already positive impact of STEM project on our school community."

Ayşe Bilgiç, Project Coordinator, Abidin Pak Pakmaya Anadolu High School, Edremit, Turkey

Students' Thoughts on STEM Training

HACER ENE, Abidin Pak-Pakmaya Anadolu High School

Hi, I am Hacer. I am a 11 grade science student in Pakmaya High School. That is why, I volunteer to participate in STEM training in Balıkesir. We need to travel there because we do not have STEM laboratories in our school yet. Once we arrived there, we formed groups to work together and we started familiarizing ourselves with some strange gadgets! After we put together those materials together and made little robots, the fun part started for me: Coding! I started writing the codes for the little robots while helping my team mates do the same thing. Suddenly there were robots everywhere, walking, talking, spinning, and crushing (not everything we did was right after all !) It is a cool way of learning. Later in the afternoon, we visited Balıkesir University Engineering Faculty. We had a meeting with a professor who works on AI technologies. I like to study computer engineering like him, but I like to work abroad. I will work harder to join the international team competition for students: See you all in Estonia!





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İLAYDA ÜNAL, Abidin Pak Pakmaya Anadolu High School



I am a science student in 11th grade. When I heard about STEM training in Balıkesir I thought "I could not do it", I was

almost not going. But I want to be an engineer, so I decided to give it a go. When we arrived Balıkesir STEM Laboratory, STEM teacher Umit Yel gave us a presentation about STEM. That caught my attention already. Moreover, we worked in pairs with experimental methods, learning by doing. I could try and try again, get help from my team mates or from the trainer. When I realized that innovation and creativity are the forces behind STEM training, it became easier and enjoyable for me to do the work. It was all day learning experience and surprisingly lots of fun. I like to be part of this project but more than that I like to have a engineering job where I continue to be creative.

TRANSNATIONAL PROJECT MEETING

TRANSNATIONAL PROJECT MEETING, (CORETEAM MEETING) PARDUBICE, OCTOBER, 2019

The first transnational project meeting was held in Pardubice (Czech Republic) from 21st to 23rd October 2019.

Hosting School: Střední průmyslová Škola chemická Pardubice, SPŠCH, CZ

One coordinator from each partner school joined the meeting, during which coordinators:

- overviewed with detailed description of project activities, tasks and outcomes, over all milestones.

- created project logo, website, Facebook group, e-twinning page, working calendar, templates for official documents.

- reviewed and revised financial rules, financial plan and timesheets

- prepared preliminary plans for Quality Assurance, Dissemination, Assessment

- gathered ideas on STEM and multidisciplinary teaching.



C1 SHORT MOBILITY MEETING

C1 Short Mobility Meeting (Teacher Training) 18-22 November 2019 Edremit (Turkey)

Host School: Abidin Pak Pakmaya Anadolu High School

Total of 18 teachers participated in C1 Teacher Training in Edremit which lasted 4 days. Teachers:

participated in "STEM Training" along with multidisciplinary and project-based methods with ICT support (by Umit Yel, STEM expert from Balıkesir city Educational Directorate)

- observed host schools' STEM based lessons activities with their students.

- created a STEM lesson plan template for the project

- developed first draft subject specific STEM lesson plans.

- dedicated on a project eBook form as pdf

- review project visibility on digital platforms (website, Facebook, e-twinning)



PROJECT INFO

Project name: STEM in Education

Registration number: 2019-1-CZ01-KA202-061111

Coordination school: Střední průmyslová Škola chemická Pardubice, SPŠCH, CZ

Partner Schools: 6 Schools

Střední průmyslová Škola chemická Pardubice, SPŠCH, CZ

BYÅSEN VIDEREGÅENDE SKOLE, NO

ITT BUONARROTI, IT

VALGAMAA KUTSEÕPPEKESKUS, EE

ABİDİN PAK PAKMAYA ANADOLU LİSESİ, TR

KES COLLEGE, CY

Project Duration: 01/09/2019 – 31/08/2021

Project website: <https://stemka2.wordpress.com>

Project facebook: https://www.facebook.com/groups/261812914706053/learning_content/

Project e-twinning: <https://twinspace.etwinning.net/98143/home>