in2steam

How to promote STE(A)Ms among primary school students?

How to provide multidisciplinary curricula by creating a bridge between creativity and science, human sciences and STE(A)M?

"IN2STEAM: Inspiring Next Generation of Girls through Inclusive STE(A)M Learning in Primary Education" is a three- year Erasmus+ KA201 project targeting primary school students in order to enhance innovative and gender inclusive educational approaches that integrates STE(A)M learning (applying art and design principles to science education) especially for female students, by reducing the gender gap in scientific career.

The acronym "STEM" stands for science, technology, engineering and mathematics, while the A includes visual or performing arts that are used as tools for STEM education.







On the 30th March 2021, the project partners met for the fourth transnational partner meeting with the aim of analysing the results obtained from the piloting period of the online training course, developed over the past months as OER version (open educational resource), which was attended by about 110 primary school teachers from 6 countries (Italy, Portugal, Cyprus, Greece, Turkey, Poland) of such, about 80 successfully completed the course. In addition, by becoming part of the SCIENTIX network, 32 teachers from countries outside the consortium of IN2STEAM, enrolled in the course, specifically from: Albania, Bulgaria, Denmark, Israel, Romania and Spain, in this way we achieved a geographical coverage greater than expected.

The teachers were able to learn the STE(A)M approach based on the combination of elements such as critical thinking, design thinking, problem solving and approaches such as the Inquiry Based Model and the Problem Based Model. All in order to create multidisciplinary school curricula, where the hard sciences and the social sciences are connected and therefore trying to overcome traditional curricula. A particular focus is also given to the integration of artistic disciplines in the STE(A)M curricula, where the process of artistic creation creates a link between artistic creativity and scientific creativity and how much creativity there is in scientific research and vice versa. A new approach to multidisciplinary teaching where all pupils are engaged, including more and more girls.





Future actions

Partners are actually working on the development of the "IO3 - Digital Teacher's Toolkit (DTT) with STE(A)M Activity Kit for Primary School" which will be available online, for download, and it will include activities and lesson plans that teachers will be able to reproduce into the classrooms. Teachers from partner countries will be supported by 18 female experts from the STE(A)M sector who will help them reproduce interactive, multidisciplinary and technological workshops within the IN2STE(A)M Labs from September 2021.

The skills acquired by both teachers and pupils will be assessed, making available an effective assessment model for teachers, the "B.A.M - Behavioural Change Model", to measure the behavioural change among both teachers and pupils as well as the achieved impact on reducing gender gap in STEM.



Partners

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