

FLIPPED LEARNING PRACTICES TO RELEASE MATHS ANXIETY WITH THE USE OF ROBOTICS



THE FIRST E-NEWSLETTER OF THE PROJECT MINDMATHS

Welcome to the first Newsletter
of the project MIND MATHS

In this e-newsletter we will introduce
the project and give some information
about the scope of the project,
the specific project activities,
and the partner institutions.

The project “Flipped Learning Practices to Release Maths Anxiety with the Use of Robots” approved within the scope of KA203-Strategic Partnerships in Higher Education Field in the Erasmus+ Programme coordinated by the European Union and the Turkish National Agency was launched at Kocaeli University, Education Faculty, the Department of Basic Education. The project will last 24 months starting on 01.09.2020 and ending on 30.08.2022.



OUR GOALS

RELEASING MATHS ANXIETY

In order to enjoy the pleasure of mathematics, we aim at disclosing that mathematics is not an isolated subject that has little to do with the objects around us. Learning by having fun is a good way to release maths anxiety.

DIGITAL TRANSFORMATION

We aim at implementing open and innovative practices in this digital era by using and developing digital tools and applying flipped learning as an element of blended learning during the training courses at the final process of the project.

MATHS EDUCATION WITH ROBOTICS

Coding and algorithmic thinking skills are the most desired skills of today's professions, therefore we aim at integrating robotics into maths education starting from primary school education to show how these disciplines are interconnected with each other and raising learners'



SCOPE

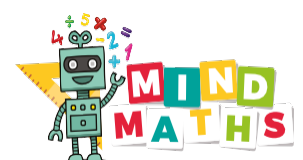
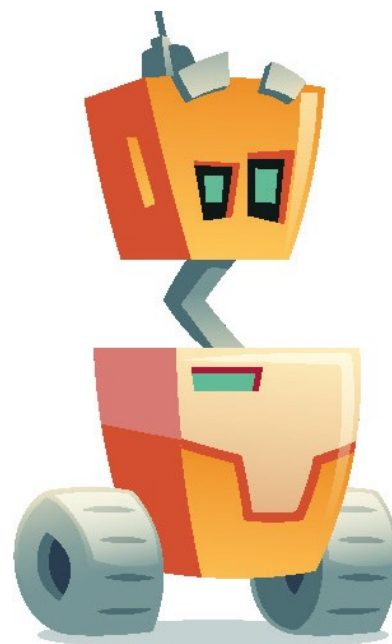
Undergraduate students will learn effective classroom management strategies and the use of robotics in blended learning practices for children with MA.

The practical implementation of the project outputs will contribute to the strengthening of a sustainable European Area of Higher Education in the mathematics education field, MA in particular.



ACTIVITIES

The project brings together the higher education representatives, robotics experts and ICT specialists to strive to help teacher students attending primary school teaching departments learn how to release Maths Anxiety with the use of robotics. The project consortium will develop a higher education curriculum and a video library for this purpose.



PARTNERS

KOU

KOCAELI UNIVERSITY (KOU) is established in 1992 with 6 faculties, 1 vocational school and 3 institutes. Now KOU is a huge educational institution serving with 19 faculties, 1

school, 21 vocational schools and a state conservatory. KOU is one of the leading science and education centres of Turkey. With more than 81.000 students, our university has an important position in the research and development activities of our country with its 15 Research and Application Centers and 28 Research and Application Units.

Our professional lecturers provide courses and seminars to the institutions or individuals in required expertise, personal development, law, professional, social and cultural training.

The faculty of Education has eight departments. Mathematics and science education is one of the strongest departments which has six faculty members and two research assistants who have experience about problem-solving and mathematical literacy in elementary/middle school levels.



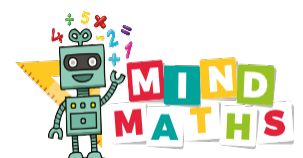
ÇOMU

Çanakkale Onsekiz Mart University (ÇOMU) was founded in 1992, with its new status and intake from Turkey's large youth population, the university developed quickly in terms of the number of students, staff and facilities, spurring the opening of new faculties and colleges. The university has over 45,000 students participating in a wide variety of programs taught by 1600 academic staff in 10 faculties, 2 polytechnic colleges and 11 vocational colleges.

Teaching vision is to have training which emphasizes general techniques in Medical, Agricultural and Educational areas.

The Faculty of Education at COMU is committed to excellence in graduate post-graduate education and research, scholarly and professional activities, and service to the educational institutions at the state, regional, national and global levels. The faculty members have

been engaged in the discovery and transfer of knowledge through research by partnering with educational stakeholders.



IPV

The creation of the Polytechnic Institute of Viseu (IPV), on 26th December 1979, is clearly framed by the broader philosophy which supported the successful implementation of public polytechnic higher education in Portugal: the cooperation with the surrounding community, on a reciprocal basis, aimed at promoting awareness of regional problems and the implementation of good solutions. The IPV strives to fulfil that ambition with the technical, humanistic and personal training of its students, in order to make them capable of contributing to the development of the Portuguese society; the development of research activities, having in mind the needs of the surrounding context; and cultural exchange and cooperation with other state/private institutions, at the national and international levels.

The Institute comprises five schools: Education, Technology and Management, Agriculture, Technology and Management (in the city of Lamego), and Health.



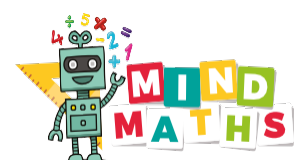
UL

University of Latvia (LU) with 13,000 students, 13 faculties and more than 20 research institutes is one of the largest comprehensive research universities in the Baltic States with educational and research potential in humanities, social and natural sciences. The only higher education institution from Latvia ranked in the QS Top Universities ranking.

UL is especially proud that its degree of internationalization has been recognized as high in several rankings, such as QS Top Universities, Multirank, Interfax ranking. UL pays great attention to the development of international collaboration and supports different schemes of mobility. At present, the UL has signed 148 bilateral agreements with universities around the world, more than 800 Erasmus+ agreements with universities in program countries and 29 agreements with universities in partner countries.



UNIVERSITY
OF LATVIA



SDR

The School of Robotics (Scuola di Robotica) is an Educational and Training Center Certified by the Italian Ministry of Education and member of the European Robotics Platform. It has extensive experience in employing robotics to support educational needs. A Committee consisting of robotics scientists and of scholars in Humanities has instituted School of Robotics

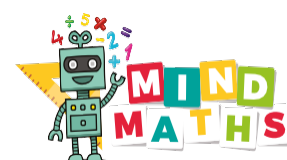
(2000), and it serves as Scientific Committee. The aim of the “Scuola di Robotica” is to promote the knowledge of the science of Robotics among students and young people, from early childhood to high school education. It provides also for the widest practicable and appropriate dissemination of information concerning the results of the R&D in the field of Robotics, ICT and of about complementary developments of other disciplines (Artificial Intelligence, Neuroscience, Philosophy, Psychology, Applied Ethics, Education).



EDUCLOUD

Educloud is a newly founded enterprise whose area of expertise is developing technological solutions according to the needs of companies and target groups. Educloud develops interactive education platforms that include participants in the learning processes. The team members are mainly experienced in ICT technologies on “Web-based software”. EDUCLOUD gives special importance to actively involve educators in assigned works and employs all supportive mechanisms in order to

provide them with opportunities to improve their skills in the field of ICT. Educloud also works very closely with associations and other social organisations and help them reach more people on virtual platforms. EDUCLOUD’s plan for the future is to reach more support mechanisms for educators and lecturers across Europe and improve its work area in a way to address more academicians, create a network of academicians interested in several areas.



ONGOING & UPCOMING EVENTS

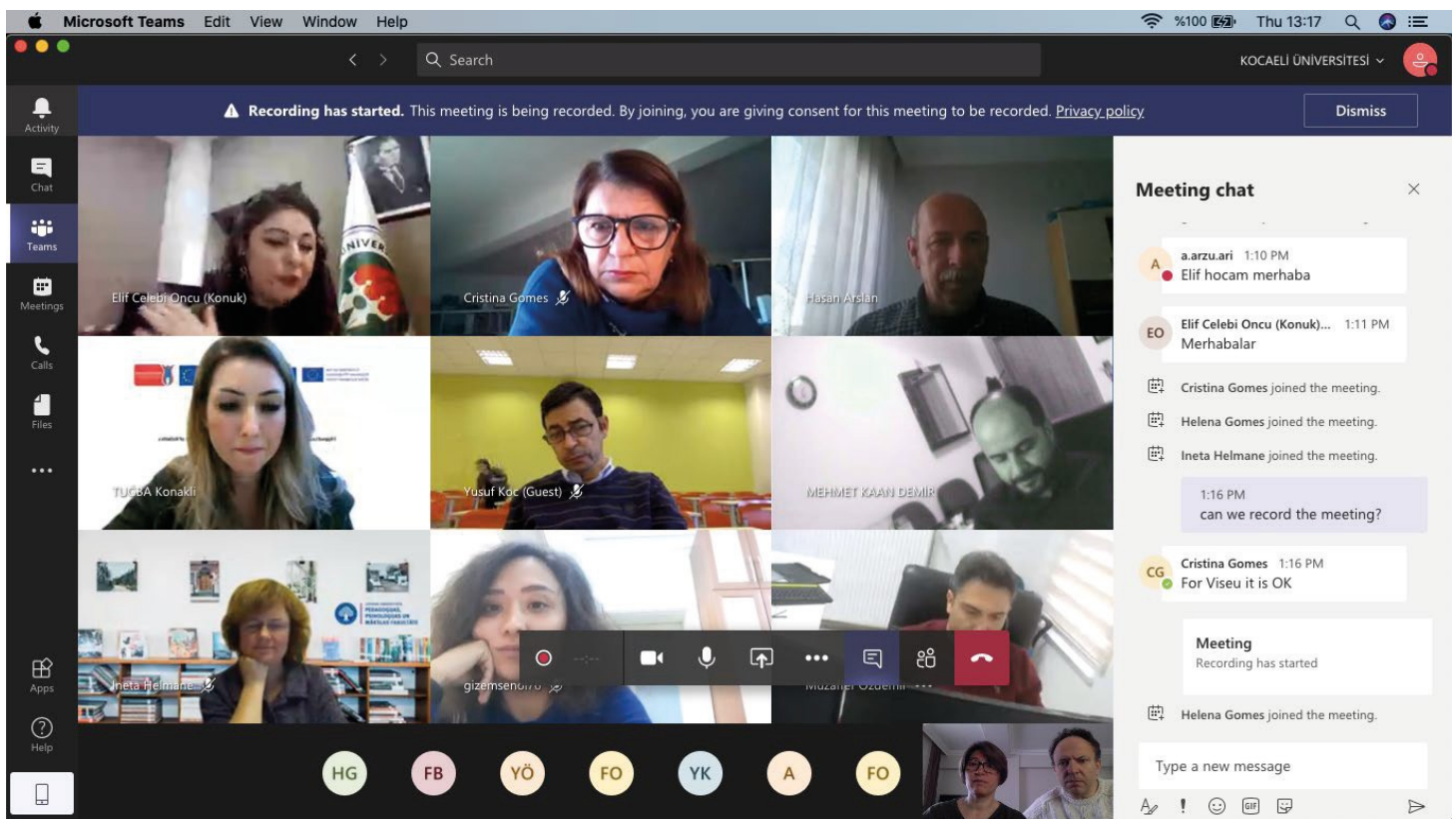
Transnational Project Meetings

The COVID-19 situation caught the whole world off guard last year. We have still been experiencing its negative effects around us. The pandemic also changed the way we live and work.

Consequently, we held our first transnational project meeting online. However, we have been adapted to the new conditions and working hard to close the gaps developing as a result of this situation.

Kick-off Meeting

The kick-off meeting of MINDMATHS was held on 1st December 2020 with the participation of the members of the project teams of each partner organization.



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