



STEM for inclusive schools

Project number:

KA220-NW-23-30-151162

Co-funded by the
Erasmus+ Programme
of the European Union



SIEC BADAWCZA LUKASIEWICZ - INSTYTUT TECHNOLOGII EKSPLOATACJI (E10070021 - PL)

Organisation ID	Legal name	Country
E10070021	SIEC BADAWCZA LUKASIEWICZ - INSTYTUT TECHNOLOGII EKSPLOATACJI	POLAND

Region	City	Website
MAZOWIECKIE	RADOM	https://www.itee.lukasiewicz.gov.pl/

Background and experience

Łukasiewicz Research Network – Institute for Sustainable Technologies for nearly 30 years already has been specialising in building up innovation performance in the areas of machine construction and maintenance, and technical and environmental safety. Other areas of the Institute's activity include model solutions in the field of technology transfer and continuing adult and vocational education.

The Centre for Vocational Education Research and Innovation Management deals with relevant and highly topical research problems in the field of work pedagogy, andragogy, intellectual capital in enterprises, behavioural economics of organisations, and other scientific disciplines concerning the issues and challenges faced by modern workplaces. The Centre is an organisational unit of the Łukasiewicz Research Network, specialising in the development of systems, models and tools supporting the integration of the vocational education (both formal and non-formal) with the economy and the labour market, as well as in the development of systems supporting commercialisation of innovative technologies and knowledge dissemination and transfer.

The main areas of activity:

- Development of educational programmes in the areas of, among others, science, technology and mathematics.
- Execution of the national and international projects related to the use of digital tools in learning - teaching process (e.g. the projects on the request of the Ministry of Science and Education).
- Making analyses and forecasts concerning new professions, qualifications, skills and competencies required on the labour market and connected with the digital transformation and sustainable economy and energy.
- Research in the field of vocational education, continuing education, adult education, and professional development.



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- Identification of the needs of employers operating on an innovation-driven market, innovation-related socio-cultural changes, and mechanisms and structures of and barriers to technology transfer.
- Development and review of vocational education curricula and monitoring and evaluation of market qualifications.
- Improvement of competencies of vocational educators, career advisers, and innovation economy specialists.
- Development of vocational education technologies with the use of digital methods and tools.
- Studies on gamification-based multicultural education in enterprises.
- Continuous cooperation with schools and organisation of apprenticeships for students.

The Centre for Vocational Education Research and Innovation Management has a huge experience in the execution and management of many national and international educational projects, especially ERASMUS+, Interreg Central Europe, Interreg Europe, Visegrad Funds, Horizon 2020. In the projects, the Centre had a function of a partner or a leader.

The activities and experience of the organisation in the areas relevant for this application:

- Development of the educational programmes in the areas of science, technology and mathematics.
- Development of digital tools related to learning-teaching process.
- Development and review of vocational education curricula and monitoring and evaluation of market qualifications.
- Improvement of competencies of students in different educational areas.
- Continuous cooperation with schools and organisation of apprenticeships for students.
- Experience in evaluation and research analysis.
- Development of educational games for students and adults.
- Development of career guidance and paths for the target groups.

Key persons involved:

1. Ludmila Walaszczyk, PhD in management - has a rich experience in educational project management at the international level, such as Leonardo da Vinci, Grundtvig, ERASMUS+, Interreg Central Europe. She took part, among others, in the projects focused on the Industry 4.0, the development of STEM approach, the creation of digital tools or virtual reality platforms. Her scientific work is focused on the entrepreneurship, education for the youth as well as the adults.
2. Remigiusz Mazur, MA - has experience in the execution of research projects in the frame of European and national schemes. He took part, among others, in the projects focused on the Industry 4.0, the creation of digital tools or virtual reality platforms, the development of STEM approach and interculturality. His scientific work is focused on the innovative educational solutions, entrepreneurship, multicultural management, business models.