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Challenge-based education

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In our contribution, we present the introduction of Challenge-based Education (CBE) in lower-secondary mathematics and sciences as a means to enhance pupils' scientific competences and engagement. We described the design and implementation of activities that apply CBE principles to connect curricular content with real-world challenges. This approach supports the development of collaboration, communication, critical thinking, and creativity, while strengthening cooperation between schools and universities through joint work of teachers, researchers, and students. The expected outcomes include deeper conceptual understanding, improved teaching practices in mathematics and physics, and increased pupil motivation for further study in STEM fields.

Pracovisko fakulty (katedra)/ Department of Faculty

KDMFI

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