

IMPACT OF THE INNOVATIVE EDUCATIONAL ENVIRONMENT ON THE DEVELOPMENT OF STUDENTS' MATHEMATICAL AND DIGITAL COMPETENCIES

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Abstract. *In the contemporary educational environment, the integration of information technologies and innovative pedagogical approaches is a key factor in the development of sustainable mathematical and digital competencies. This study examines the relationship between the characteristics of the learning environment and the level of acquired knowledge and skills in mathematics and Computer Modeling and Information Technology (CMIT). Through the analysis of a student survey, the level of satisfaction and the effectiveness of the digital tools and teaching methods used are evaluated. The results indicate that the application of interactive technologies, project-based learning, and interdisciplinary connections significantly increases student motivation and improves learning outcomes. The study provides guidelines for optimizing the educational environment in the context of the digital transformation of education.*

Key words: Educational Environment, Mathematical Competencies, Digital Competencies, STEM Education, Digital Tools, Student Satisfaction, Interactive Learning

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