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Technological innovations and the transformation of Biology education technology - The Vision for the future of the Albanian educational system

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Abstract

The study is about how technological advances are being used to teach biology in the Albanian school system, and how it will change in the future. Technological advancement has the potential to considerably improve learning and teaching experiences as applied in education. The results were based on the 'National programme for the professional development of teachers', initiated by the quality assurance agency in pre-university education in Albania and the Ministry of Education and Sports. During a two-months period almost 140 teachers were trained. The study will also contain the final results and evaluations of the teachers, as well as parts from the worksheets and biology-related stimulations, that are becoming more and more important nowadays to create a better learning environment for students. It examines up-and-coming technologies such as interactive digital platforms, and advanced simulation tools that have impacted biology education. It also shows how these technologies can increase student involvement, make learning more immersive, and improve comprehension of intricate biological concepts. The research further looks into issues like limitations on infrastructure, teacher training and curriculum development. This study therefore should offer suggestions for aligning these advancements with the Albanian educational framework by proposing a strategic vision for the future. This vision aims to update biology instruction so that it becomes in-house with modern scientific achievements hence making students well prepared for tomorrow's science-based industries.

Keywords: technology, professional training, students, biology-related stimulations.

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