National University of Science and Technology Researchers Detail Findings in Artificial Intelligence [The Impact of Artificial Intelligence (AI) on Students' Academic Development].

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2025 APR 7 (VerticalNews) -- By a News Reporter-Staff News Editor at Journal of Engineering -- Research findings on artificial intelligence are discussed in a new report. According to news reporting out of National University of Science and Technology by VerticalNews editors, research stated, "The integration of Artificial Intelligence (AI) in education has transformed academic learning, offering both opportunities and challenges for students' development. This study investigates the impact of AI technologies on students' learning processes and academic performance, with a focus on their perceptions and the challenges associated with AI adoption."

Our news journalists obtained a quote from the research from National University of Science and Technology: "Conducted at the National University of Science and Technology POLITEHNICA Bucharest, this research involved second-year students who had direct experience with AI-enhanced learning environments. Using purposive sampling, 85 participants were selected to ensure relevance. Data were collected through a structured questionnaire comprising 11 items as follows: seven closed-ended questions assessing perceptions, usage, and the effectiveness of AI tools; and four open-ended questions exploring experiences, expectations, and concerns. Quantitative data were analyzed using frequency and percentage calculations, while qualitative responses were subjected to thematic analysis, incorporating both vertical (individual responses) and horizontal (cross-dataset) approaches to ensure comprehensive theme identification. The findings reveal that AI offers significant benefits, including personalized learning, improved academic outcomes, and enhanced student engagement. However, challenges such as over-reliance on AI, diminished critical thinking skills, data privacy risks, and academic dishonesty were also identified. The study underscores the necessity of a structured framework for AI integration, supported by ethical guidelines, to maximize benefits while mitigating risks."

According to the news reporters, the research concluded: "In conclusion, while AI holds immense potential to enhance learning efficiency and academic performance, its successful implementation requires addressing concerns related to accuracy, cognitive disengagement, and ethical implications. A balanced approach is essential to ensure equitable, effective, and responsible learning experiences in AI-enhanced educational environments."

For more information on this research see: The Impact of Artificial Intelligence (AI) on Students' Academic Development. Education Sciences, 2025,15(3):343. (Education Sciences - http://www.mdpi.com/journal/education). The publisher for Education Sciences is MDPI AG.

A free version of this journal article is available at https://doi.org/10.3390/educsci15030343.

Our news editors report that additional information may be obtained by contacting Aniella Mihaela Vieriu, Department of Teacher Training and Social Sciences, National University Science and Technology POLITEHNICA Bucharest, 060042 Bucuresti, Romania. Additional authors for this research include Gabriel Petrea.

Keywords for this news article include: National University of Science and Technology, Machine Learning, Emerging Technologies, Artificial Intelligence.

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