

Closing the AI-Literacy Gap for Physics Teacher Trainees — A Nine-University Controlled Trial in Kazakhstan

AI in Education · Good practice · Kazakhstan

Quality score: 73/100

Evidence strength: Quasi-experimental

Summary

A 5-week AI-literacy module for pre-service physics teachers across nine Kazakhstani universities, led by Zhetysu University, raised literacy scores far above a no-intervention control group (10.20 vs 7.34, decisive Bayesian evidence), *Frontiers in Education*, 2025.

Key dimensions

Dimension	Score
Evidence of learning impact	3/3
Equity & inclusion	1/3
Transparency, ethics & data protection	2/3
Teacher capability & pedagogy	3/3
Scalability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-09

[Zhetysu University](#) — accessed 2026-09-09

[Zhetysu University — Department of Physics and Mathematics](#) — accessed 2026-09-09

[Frontiers in Education article](#) — accessed 2026-09-09

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