

AI-Driven Sociocultural Digital Module — Culturally-Grounded Science Teaching in South Papua

AI in Education · Good practice · Indonesia

Quality score: 53/100

Evidence strength: Moderate

Summary

Universitas Musamus built an AI module weaving Papuan sociocultural content into PISA-aligned science lessons. A controlled pre/post trial (200 students, 40 teachers) found a 49.19% gain in understanding complex concepts; a companion study rated it over 95% efficient.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-07-29

Universitas Musamus, with Indonesia University of Education (UPI) — accessed 2026-07-29

International Journal of Learning, Teaching and Educational Research — AI-Driven Sociocultural Interactive Digital Module for Papua — accessed 2026-07-29

Journal Evaluation in Education — Teachers' and Students' Feedback on Sociocultural Interactive Digital Modules for Science Literacy and Problem-Solving — accessed 2026-07-29

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