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Toward a Development Integrated Real-time Feedback of Performance Assessment on Science Practicum for Measure Critical Thinking Skills in University: A Case Study in Indonesia

This research aims to gather initial data from two public and two private universities in Indonesia to build science process skills that incorporate real-time feedback into science practicum performance assessment. Using a cluster random sampling process and a qualitative case study approach, the data were descriptively evaluated with a chi-square test. Methods for gathering information included surveys, in-depth interviews, and careful observation. Management representatives from four separate universities were interviewed in-depth for this study, which also included 376 students and lecturers from the same university. The results show that performance of science process skills was not tested since no instrument was used. Neither public nor private universities have administered science practicum on science process skills assessment with real-time feedback since there is no statistically significant difference ($p > 0.05$) in the results between the two types of colleges. When asked about their experiences with integrating real-time feedback into science practicum assessments of science process skills, neither university students nor lecturers showed a significant difference in response rates ($p > 0.05$). This suggests that both groups have had similar responses to this type of assessment. To give students immediate feedback on their scientific practicum performance, this study recommends developing performance assessments with smartphone-based applications that focus on science process skills.

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