

INCORPORATING BALINESE INDIGENOUS SCIENCE INTO THE CLASSROOM TO PROMOTE PHYSICS EDUCATION BASED ON LOCAL WISDOM

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Indigenous science is the comprehensive knowledge that incorporates local perceptions, practices, skills, cultures, and ideas and has been utilised by local communities to study natural phenomena and adapt to environmental change. There is a lot of indigenous science manifested from cultural values and local wisdom that has been passed down from generation to generation. Some of them are also acquired through the accumulation of real practices and experiences through interaction between nature and social culture. Bali, as one of the places in Indonesia, has long been recognised for its traditions and local values, which have served as the basis for the Balinese people's way of life. The Balinese local wisdom represented in the form of art, ideology and local custom (*awig-awig*) contains both cultural value and scientific knowledge. By integrating this local wisdom into the classroom, such as serving as the content in the physics education curriculum, will benefit both the students and science teachers. The local wisdom-based physics learning process that students go through will be able to provide contextual learning and accelerate the process of concept comprehension development. It also offers the opportunity for students to learn and preserve the original cultural value and identity contained in their own local wisdom. Apart from that, the integration of indigenous knowledge in terms of local wisdom into physics education also strengthens and fosters the development of students' character based on the local wisdom values.

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