

Development of Inquiry e-Module plus The Learning Cell to Increase Learning Activity and Spiritual Intelligence

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ABSTRACT

The Covid-19 pandemic has had an impact on all fields, including education. Learning loss and competency inequality that occur are vital things that must be overcome, including problems of learning activity and spiritual intelligence. In addition, the digital era demands the integrated use of technology in learning, including in teaching materials. This research aims to develop an e-module with an inquiry approach plus the learning cell that is feasible, practical, and effective. This research is a development research with 4D design (Define, Design, Develop, Disseminate). The subjects of the study were junior high school students in grade 7 or 8. Research instruments in the form of product validation questionnaire sheets, learning activity observation sheets, spiritual intelligence questionnaires, and student response questionnaires to science e-modules with an inquiry approach plus the learning cell. Feasibility and practicality data analysis techniques descriptively, both quantitative and qualitative. For product effectiveness data, it was tested using effect size and inferential statistical tests with paired t tests. The results of this study showed that four feasible science e-modules were produced based on the assessment of three expert lecturers, with revisions to the content, language, and concept map sections. In addition, based on the results of product trials, there are significant differences in learning activities between classes that use the science e-module with an inquiry approach plus the learning cell and without using based on the results of an independent t test (significance $<0,05$) and results effect size 0.629 (medium). The use of the IPA e-module with an inquiry approach plus the learning cell only provides an increase in spiritual intelligence that is still low based on the value of N Gain. The plan will be published in the international journal indexed by Scopus Q3, namely IJEMST (International Journal Education in Mathematics, Science, and Technology) and seminared in an international seminar. In addition, the e-module product has an inquiry approach plus the learning cell produced in HAKI

Kata Kunci: *inquiry, the learning cell, learning activity, spiritual intelligence*