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ABSTRACT

Erni Wulandari, (2018): The Development of a Module Relating, Experiencing, Applying, Cooperating, and Transferring (REACT) Based in Facilitating Student Mathematic Communication Ability at Islamic Junior High School Pekanbaru

Mathematic communication ability was a component of learning ability that should be owned by students. Thus, it was needed a research to develop a module that could increase the ability. This research aimed at producing a mathematics module Relating, Experiencing, Applying, Cooperating, and Transferring (REACT) based that was valid, practical, and effective in facilitating communication ability. It was a Research and Development (R&D) with ADDIE (Analysis, Design, Development, Implementation, and Evaluation) model. It was administered at Islamic Junior High School of Darul Hikmah Pekanbaru. The subjects of this research were the eighth-grade students, and the object was a mathematics module REACT based. The data were qualitative and quantitative. The techniques of collecting the data were validity and practicality questionnaires, and communication ability test. The data obtained from validity and practicality questionnaires were analyzed descriptively. The result of developed module was tested by the material experts on the validity level that was 89.25% (very valid), the validity level by the technology experts was 90.58% (very practical), and practicality level was 95.05% (very practical). The data obtained from the effectiveness test of communication ability were analyzed by using inferential statistic that was t-test. t_{observed} was 3.19 and t_{table} was 2.01 at 5% significant level. t_{observed} was higher than t_{table} , or $3.19 > 2.01$. So, H_a was accepted and H_0 was rejected. It meant that there was a significant difference on mathematics communication ability between students using the module and those who did not use it. It revealed that a module REACT model based was valid, practical, and effective in facilitating student mathematic communication ability.

Keywords: Module Relating, Experiencing, Applying, Cooperating, and Transferring (REACT) Based, Mathematic Communication Ability