

ABSTRAK

PENGEMBANGAN MODUL PEMBELAJARAN MATEMATIKA BERBASIS *PROJECT BASED LEARNING* UNTUK MENINGKATKAN KEMAMPUAN BERPIKIR KRITIS SISWA DI MTS AL-WASHLIYAH SIMPANG GAMBUS

Oleh

Isma Wati

NPM : 71180514007

Email : iismawatiiis2000@gmail.com

Model pembelajaran *Project Based Learning* (PjBL) adalah model pembelajaran yang memberikan kesempatan kepada guru untuk mengelola pembelajaran di kelas dengan melibatkan kerja proyek. Penelitian yang dilakukan berdasarkan hasil observasi bahwa guru menggunakan bahan ajar yaitu modul dari percetakan yang kurang menarik dari tampilan isi. Akibatnya siswa menjadi malas untuk berpartisipasi dalam proses pembelajaran. Modul tersebut belum memberikan kesempatan siswa untuk lebih mengembangkan dan memfasilitasi kemampuan berpikir kritis siswa dalam mengemukakan konsep-konsep matematika. Sehingga penelitian ini bertujuan untuk mengembangkan modul pembelajaran matematika berbasis *Project Based Learning* (PjBL) untuk meningkatkan kemampuan berpikir kritis siswa di MTs Al-Washliyah Simpang Gambus. Model pengembangan perangkat pembelajaran yang digunakan adalah pengembangan Thiagarajan tahap 3-D yaitu: *Define* (pendefinisian), *Design* (desain), *Development* (pengembangan). Populasi pada penelitian ini berada di sekolah MTs Al-Washliyah Simpang Gambus. Sampel pada penelitian ini siswa kelas VIII A Dengan jumlah 30 siswa dan siswa kelas VIII B dengan jumlah 26 siswa. Berdasarkan hasil validasi oleh 6 orang validator dengan cara mengisi angket penilaian dengan skor rata-rata 4,44 berada pada kategori sangat baik. Hasil uji kepraktisan diperoleh melalui angket respon siswa dengan skor rata-rata 82,7 berada pada kriteria baik. Hasil uji keefektifan diperoleh melalui tes hasil belajar siswa dengan skor rata-rata 80% berada pada kriteria baik, serta kemampuan berpikir kritis siswa berdasarkan rata-rata N-Gain 0,71 berada pada kriteria tinggi.

Kata Kunci: *Project Based Learning*, Modul, Kemampuan Berpikir Kritis, 3-D

ABSTRACT

DEVELOPMENT OF MATHEMATICS LEARNING MODULE
BASED ON *PROJECT BASED LEARNING* TO IMPROVE
STUDENTS' CRITICAL THINKING ABILITIES
AT MTS AL-WASHLIYAH SIMPANG GAMBUS

By

Isma Wati


NPM : 71180514007

Email : iismawatiis2000@gmail.com

Project Based Learning (PjBL) model is a learning model that provides opportunities for teachers to manage classroom learning by involving project work. The research was conducted based on the observation that teachers used teaching materials, namely modules from printing which were less attractive than the content display. As a result, the students become lazy to participate in the learning process. The module has not given the students the opportunity to further develop and facilitate the students' critical thinking abilities in presenting the mathematical concepts. So, this study aims to develop *Project Based Learning* (PjBL)-based mathematics learning module to improve the students' critical thinking abilities at Mts Al-Washliyah Simpang Gambus. The learning device development model used is the 3-D stage of Thiagarajan development, namely: *Define, Design, Development*. The population in this study was at Mts Al-Washliyah school Simpang Gambus. The samples in this study were the students of class VIII A with a total of 30 students and the students of class VIII B with a total of 26 students. Based on the results of validation by 6 validators by filling out the assessment questionnaire with an average score of 4.44 in the very good category. The results of the practicality test were obtained through the student response questionnaire with an average score of 81.55 which was in good criteria. The results of the effectiveness test were obtained through the students learning outcomes tests with an average score of 80% being in good criteria, and the students' critical thinking skills based on an average N-Gain of 0.71 were in high criteria.

Keywords: *Project Based Learning*, Module, Critical Thinking Ability, 3-D

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Attested by: 
Safitri Hariani, S.S., M.S.
Chairperson of Language Center UISU

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Chairperson,
Safitri Hariani, S.S., M.S.

