

ABSTRACT

DEVELOPMENT OF HANDOUT BASED ON GUIDED NOTE TAKING RELATED TO IMPROVING STUDENT'S MATHEMATIC COMMUNICATION ABILITY

By

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This study aims to (1) develop a handout based on guided note taking related to improving mathematical communication skills in the material of a three-variable system of linear equations. (2) to determine the quality of handouts seen from the aspect of validity and practicality. This research is a development research that refers to the 4D development model, namely define, design, develop, disseminate. The subjects in this study were 2 teachers and 5 students of SMAN 1 Buay Bahuga. The instruments used to measure the quality of the developed handouts include expert questionnaires, teacher and student response questionnaires. The expert questionnaire was used to measure the validity of the handout, while the teacher and student response questionnaire was used to measure the practicality of the handout. The questionnaire data were analyzed descriptively. The results showed that from the aspect of validity, it was included in the valid category with an average score of 78,5 based on the assessment of two expert lecturers (material, design and language experts); seen from the responses of two teachers with an average of 42.5 included in the good category and student responses with an average of 41.8 included in the good category so that the practicality aspect is categorized as practical based on the results of the handout user responses. Based on the results of the study, it can be concluded that the handout based on guided note taking related to the improvement of mathematical communication skills in the three-variable linear equation system is valid and practical to use in learning.

Keyword: *Handout, Guided Note Taking, Mathematic Communication*

ABSTRAK

PENGEMBANGAN HANDOUT BERBASIS GUIDED NOTE TAKING TERKAIT DENGAN PENINGKATAN KEMAMPUAN KOMUNIKASI MATEMATIS SISWA

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Penelitian ini bertujuan untuk (1) mengembangkan *handout* berbasis *guided note taking* terkait dengan peningkatan kemampuan komunikasi matematis pada materi sistem persamaan linear tiga variabel. (2) mengetahui kualitas *handout* dilihat dari aspek kevalidan dan kepraktisan. Penelitian ini merupakan penelitian pengembangan yang mengacu pada model pengembangan 4D, yaitu *define, design, develop, disseminate*. Subjek dalam penelitian ini adalah 2 guru dan 5 siswa SMAN 1 Buay Bahuga. Instrumen yang digunakan adalah lembar angket (angket ahli, angket guru dan siswa). Angket ahli digunakan untuk mengukur kevalidan *handout* sedangkan angket respon guru dan siswa digunakan untuk mengukur kepraktisan *handout*. Data angket tersebut dianalisis secara deskriptif. Hasil penelitian menunjukkan bahwa dilihat dari aspek kevalidan termasuk dalam kategori valid dengan skor rata-rata 78,5 berdasarkan penilaian dua dosen ahli (ahli materi, desain dan bahasa); dilihat dari respon dua guru dengan rata-rata 42,5 termasuk dalam kategori baik dan respon siswa dengan rata-rata 41,8 termasuk dalam kategori baik sehingga aspek kepraktisan dikategorikan praktis berdasarkan hasil respon pengguna *handout*. Berdasarkan hasil penelitian dapat disimpulkan bahwa *handout* berbasis *guided note taking* terkait dengan peningkatan kemampuan komunikasi matematis pada materi sistem persamaan linear tiga variabel yang dikembangkan adalah valid dan praktis digunakan dalam pembelajaran.

Kata kunci: Handout, Guided Note Taking, Komunikasi Matematis