ABSTRAK

Rahayu, Siti Kristiyanti, 2023, Pengembangan E-LKPD Dengan Pendekatan *Open Ended* Untuk Meningkatkan Kemampuan Berpikir Kreatif Siswa Kelas VIII Pada Materi Sistem Persamaan Linear Dua Variabel. Skripsi, Program Studi Pendidikan Matematika, Universitas Muhammadiyah Semarang. Pembimbing: I. Dwi Sulistyaningsih, S.Si., M.Pd., II. Eko Andy Purnomo, M.Pd.

Kata Kunci : Pengembangan, Bahan Ajar, E-LKPD, *Open Ended,* Berpikir Kreatif

Pembelajaran abad 21 menuntut siswa untuk menguasai beberapa kemampuan, salah satunya yaitu kemampuan berpikir kreatif. Kemampuan berpikir kreatif siswa dalam pembelajaran matematika terutama pada materi sistem persamaan linear dua variabel (SPLDV) masih tergolong rendah. Rendahnya kemampuan berpikir kreatif siswa ini disebabkan penggunaan bahan ajar oleh guru yang masih menyajikan penyelesaian soal secara langsung sehingga jika siswa dihadapkan soal yang berbeda dari sebelumnya akan merasa kesulitan. Selain itu, bahan ajar yang digunakan merupakan bahan ajar cetak membuat tampilannya kurang menarik saat digunakan dalam pembelajaran. Oleh karena itu, dibutuhkan bahan ajar yang menarik dan mudah dipahami serta dapat menumbuhkan kemampuan berpikir kreatif siswa. bahan ajar tersebut berupa E-LKPD dengan pendekatan *open ended* yang dirancang untuk meningkatkan kemampuan berpikir kreatif siiswa. Tujuan penelitian ini yaitu untuk menentukan kevalidan dan kepraktisan dari E-LKPD dengan pendekatan *open ended* serta dapat meningkatkan kemampuan berpikir kreatif siswa. Penelitian ini merupakan penelitian dan pengembangan dengan menerapkan model pengembangan ADDIE (*Analyze, Design, Development, Implementation,* dan *Evaluation*). Teknik pengumpulan data dalam penelitian ini yaitu observasi, wawancara, angket, tes, dan dokumentasi. Instrumen yang digunakan meliputi angket validasi ahli materi dan ahli media, angket respon guru dan siswa, serta soal *pre-test* dan *post-test.* Hasil penelitian menunjukkan bahwa validasi dari ahli materi sebesar 93,12% dengan kriteria sangat valid dan validasi ahli materi sebesar 91,82 dengan kriteria sangat valid, respon guru sebesar 94,76% dengan kriteria sangat praktis dan respon siswa sebesar 79,90% dengan kriteria praktis, serta hasil *uj paired sample t-test* kemampuan beprikir kreatif siswa diperoleh nilai Sig. (2-tailed) sebesar 0,000 yang artinya kurang dari 0,05 sehingga menunjukkan adanya peningkatan kemampuan beprikir kreatif siswa setelah menggunakan E-LKPD dengan pendekatan *open ended*. Berdasarkan hasil penelitian dapat disimpulkan bahwa E-LKPD dengan pendekatan *open ended* materi SPLDV yang dikembangkan memenuhi kriteria valid dan praktis, serta dapat meningkatkan kemampuan berpikir kreatif siswa. Saran untuk pemanfaatan dan pengembangan lebih lanjut yaitu E-LKPD dapat dikembangkan lagi dari segi materi sehingga dapat meluas ke materi yang lain, pengembangan soal *HOTS* ke level yang lebih tinggi, serta lebih dapat berinovasi dalam pemilihan *software* sehingga E-LKPD dapat diakses secara offline.

ABSTRACT

Rahayu, Siti Kristiyanti, 2023, Development of an E-LKPD with an Open Ended Approach to Improve the Creative Thinking Ability of Class VIII Students in the Material of Two-Variable Linear Equation Systems. Thesis, Mathematics Education Study Program, Muhammadiyah University Semarang. Advisor: I. Dwi Sulistyaningsih, S.Si., M.Pd., II. Eko Andy Purnomo, M.Pd.

Keywords: Development, Teaching Materials, E-LKPD, Open Ended, Creative Thinking

21st century learning requires students to master several abilities, one of which is the ability to think creatively. Students' ability to think creatively in learning mathematics, especially in the matter of two-variable linear equation systems (SPLDV) is still relatively low. The low ability of students' creative thinking is due to the use of teaching materials by teachers who still present direct problem solving so that if students are faced with problems that are different from before they will find it difficult. In addition, the teaching materials used are printed teaching materials making it look less attractive when used in learning. Therefore, teaching materials are needed that are interesting and easy to understand and can foster students' creative thinking skills. The teaching material is in the form of an E-LKPD with an open ended approach designed to improve students' creative thinking skills. The purpose of this study is to determine the validity and practicality of the E-LKPD with an open ended approach and to improve students' creative thinking skills. This research is research and development by applying the ADDIE development model (Analyze, Design, Development, Implementation, and Evaluation). Data collection techniques in this study are observation, interviews, questionnaires, tests, and documentation. The instruments used included material expert and media expert validation questionnaires, teacher and student response questionnaires, as well as pre-test and post-test questions. The results showed that the validation of material experts was 93.12% with very valid criteria and the validation of material experts was 91.82 with very valid criteria, the teacher's response was 94.76% with very practical criteria and the student response was 79.90% with practical criteria, as well as the results of the paired sample t-test of students' creative thinking ability, the value of Sig. (2-tailed) of 0.000 which means less than 0.05 so that it shows an increase in students' creative thinking abilities after using the E-LKPD with an open ended approach. Based on the results of the study it can be concluded that the E-LKPD with an open ended approach to SPLDV material developed meets valid and practical criteria, and can improve students' creative thinking skills. Suggestions for further utilization and development are that the E-LKPD can be further developed in terms of material so that it can extend to other materials, develop HOTS questions to a higher level, and be able to innovate more in software selection so that the E-LKPD can be accessed offline.