

ABSTRAK

Luluk Kharirroh. 2026. *Analisis Efektifitas Model Cooperative Learning Tipe*

STAD berbantuan Kahoot Untuk Mengetahui Keterampilan Berpikir

Kritis Mahasiswa.. Skripsi. Program Studi Pendidikan Teknik Elektro,

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Pembelajaran yang lebih fokus pada dosen cenderung tidak cukup untuk mengembangkan keterampilan berpikir kritis mahasiswa, terutama dalam mata kuliah Proteksi Sistem Tenaga Listrik teori relay. Penelitian ini bertujuan untuk menganalisis efektivitas penerapan model *Cooperative Learning* tipe *Student Teams Achievement Division (STAD)* dengan bantuan media pembelajaran *Kahoot* dalam meningkatkan keterampilan berpikir kritis mahasiswa. Instrumen penelitian mencakup tes pilihan ganda, lembar validasi ahli, soal kasus, serta angket respon mahasiswa digunakan untuk mengetahui peningkatan hasil belajar dan keterampilan berpikir kritis mahasiswa setelah perlakuan. Penelitian ini menggunakan *mixed methods* dengan desain *Sequential Explanatory*. Hasil data presentase yang diperoleh dari tes kemampuan awal sebesar 50.16% dan Setelah menerapkan model *cooperative learning* tipe STAD, mahasiswa mengerjakan soal kasus untuk menganalisis keterampilan berpikir kritis dengan hasil terdapat 4 Mahasiswa dengan kategori “Sangat Kritis”, dan Terdapat 6 Mahasiswa dengan kategori “Kritis”, dapat disimpulkan Model *cooperative learning* tipe STAD berbantuan *kahoot* dapat membantu mahasiswa dalam meningkatkan berpikir kritis pada mahasiswa. Mahasiswa terkategori angket respon diperoleh hasil

presentase sebesar 88.16% dengan rata – rata jawaban “sangat setuju” yang dilaksanakan pada mahasiswa semester 4 Program Studi Pendidikan Teknik Elektro Universitas PGRI Madiun. Hasil penelitian menunjukkan bahwa penerapan model *Cooperative Learning* tipe STAD dapat meningkatkan keterampilan berpikir kritis mahasiswa dengan kategori efektivitas cukup hingga efektif. Respon positif juga diterima dari mahasiswa. Dengan demikian, model pembelajaran STAD yang dipadukan dengan media *Kahoot* dapat menjadi alternatif pembelajaran yang inovatif dan efektif untuk mata kuliah Proteksi Sistem Tenaga Listrik teori relay.

Kata kunci: *Cooperative Learning*, STAD, *Kahoot*, Berpikir Kritis, Proteksi Sistem Tenaga Listrik

ABSTRACT

Luluk Kharirroh. 2026. Analysis of the Effectiveness of the STAD Cooperative Learning Model Supported by Kahoot in Assessing Students' Critical Thinking Skills. Thesis. Department of Electrical Engineering Education, Faculty of Teacher Training and Education, PGRI University of Madiun. Advisors: (I) Ihtiari Prastyaningrum, S.Si., M.Si., (II) Pramudya Ardi, M.Pd.

Teaching methods that are more teacher-centered tend to be insufficient for developing students' critical thinking skills, particularly in the course on Electrical Power System Protection: Relay Theory. This study aims to analyze the effectiveness of implementing the Student Teams Achievement Division (STAD) cooperative learning model, supported by the Kahoot learning platform, in enhancing students' critical thinking skills. Research instruments included multiple-choice tests, expert validation sheets, case studies, and student response questionnaires to determine improvements in learning outcomes and students' critical thinking skills following the intervention. This study employed a mixed-methods approach with a Sequential Explanatory design. The percentage results obtained from the pre-test were 50.16%. After implementing the STAD cooperative learning model, students worked on case studies to assess their critical thinking skills, with the results showing that 4 students fell into the "Very Critical" category, and 6 students in the "Critical" category. It can be concluded that the STAD cooperative learning model, supported by Kahoot, can help students improve their critical thinking skills. The results of the student response questionnaire showed a

percentage of 88.16%, with an average response of “strongly agree,” conducted among fourth-semester students in the Electrical Engineering Education Program at PGRI University Madiun. The results of the study indicate that the implementation of the STAD cooperative learning model can improve students’ critical thinking skills, with effectiveness ranging from moderate to high. Positive feedback was also received from the students. Thus, the STAD learning model combined with Kahoot can serve as an innovative and effective learning alternative for the course on Electrical Power System Protection: Relay Theory.

Keywords: *Cooperative Learning, STAD, Kahoot, Critical Thinking, Electrical Power System Protection.*