

Qurrotul Aisyah Mulyasari, 2026. *Penerapan Case Based Learning berbantuan E-modul untuk Meningkatkan Keterampilan Berpikir Kritis Siswa SMP*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Keguruan dan Pendidikan, Universitas Trunodjoyo Madura. Dosen Pembimbing : Aida Fikriyah.

ABSTRAK

Berpikir kritis merupakan kompetensi utama yang harus dimiliki setiap siswa, karena dengan keterampilan berpikir kritis yang memadai dapat membantu siswa menganalisis, mengevaluasi, serta menyelesaikan berbagai permasalahan secara logis. Penelitian ini bertujuan untuk mengetahui pengaruh penerapan model *Case Based Learning* berbantuan E-modul terhadap keterampilan berpikir kritis siswa pada materi Ekologi dan Keanekaragaman Hayati kelas VII SMP. Penelitian ini menggunakan metode kuantitatif dengan jenis penelitian *Quasi experiment* dan desain *Nonequivalent Control Group Design*. Populasi penelitian ini adalah seluruh siswa kelas VII SMP Negeri 1 Labang serta sampel Penelitian terdiri dari 25 siswa di kelas eksperimen dan 26 siswa di kelas kontrol yang ditentukan menggunakan teknik *purposive sampling*. Instrumen penelitian berupa tes keterampilan berpikir kritis, lembar observasi keterlaksanaan pembelajaran, lembar pedoman wawancara dan angket respons siswa. Data dianalisis menggunakan uji normalitas, uji homogenitas, uji *independent sample t-test* dan uji *N-Gain*. Hasil penelitian menunjukkan bahwa rata-rata *N-Gain* kelas eksperimen sebesar 0,71 (kategori tinggi) dan kelas kontrol 0,25 (kategori rendah). Hasil uji *independent sample t-test* pada nilai *posttest* memperoleh nilai signifikansi 0,000 ($<0,05$), sehingga terdapat pengaruh yang signifikan dari penerapan model CBL berbantuan e-modul terhadap keterampilan berpikir kritis siswa, peningkatan keterampilan berpikir kritis pada kelas yang diberi perlakuan, keterlaksanaan pembelajaran mencapai 93%, serta respons siswa mencapai rata-rata 76%. Dengan demikian, model *case based learning* berbantuan e-modul efektif meningkatkan keterampilan berpikir kritis siswa pada materi Ekologi dan Keanekaragaman Hayati.

Kata kunci: *Case Based Learning*, E-modul, Keterampilan Berpikir Kritis, Ekologi dan Keanekaragaman Hayati.

Qurrotul Aisyah Mulyasari, 2026. *The Implementation of Case-Based Learning Assisted by an E-Module to Improve Junior High School Students' Critical Thinking Skills. Undergraduate Thesis, Science Education Study Program, Faculty of Teacher Training and Education, Trunodjoyo University Madura. Supervisor: Aida Fikriyah.*

ABSTRACT

Critical thinking is a fundamental competency that every student should possess, as adequate critical thinking skills enable students to analyze, evaluate, and solve various problems logically. This study aimed to determine the effect of implementing the Case Based Learning (CBL) model assisted by an e-module on the critical thinking skills of seventh-grade junior high school students in the topic of Ecology and Biodiversity. This study employed a quantitative method using a quasi-experimental research design with a Nonequivalent Control Group Design. The population of this study consisted of all seventh-grade students at SMP Negeri 1 Labang. The research sample comprised 25 students in the experimental class and 26 students in the control class, selected using a purposive sampling technique. The research instruments included a critical thinking skills test, a learning implementation observation sheet, an interview guide, and a student response questionnaire. The data were analyzed using the normality test, homogeneity test, independent sample t-test, and N-Gain test. The results showed that the average N-Gain score of the experimental class was 0.71 (high category), while that of the control class was 0.25 (low category). The independent sample t-test on the posttest scores yielded a significance value of 0.000 (<0.05), indicating a significant effect of the implementation of the Case Based Learning model assisted by an e-module on students' critical thinking skills. In addition, the students in the experimental class demonstrated greater improvement in critical thinking skills than those in the control class. The implementation of the learning process reached 93%, while the average student response was 76%. Therefore, the Case Based Learning model assisted by an e-module was effective in improving students' critical thinking skills in the topic of Ecology and Biodiversity.

Keywords: Case Based Learning, e-module, Critical Thinking Skills, Ecology and Biodiversity.