

Mala Mulia. 2018. *Pengembangan Bahan Ajar E-learning Berbasis CTL Terhadap Keterampilan Berpikir Kritis Menggunakan Aplikasi Moodle*. Skripsi, Progran Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing I Laila Khamsatul Muharrami dan Pembimbing II Ana Yuniasti Retno Wulandari.

ABSTRAK

Tujuan penelitian ini adalah mengetahui kelayakan, keterbacaan, keterampilan berpikir siswa, dan respon siswa terhadap bahan ajar. Bahan ajar yang dikembangkan adalah bahan ajar *e-learning* berbasis CTL terhadap keterampilan berpikir kritis menggunakan aplikasi *moodle*. Penelitian ini merupakan penelitian dan pengembangan dengan menggunakan model Borg & Gall. Desain penelitian menggunakan *One-Group-Pretest-Posttest Design*. Penelitian dilaksanakan di SMP Negeri 1 Socah kelas VII C dengan 17 siswa pada semester genap tahun ajaran 2017/2018. Berdasarkan hasil penelitian disimpulkan bahwa: (1) Bahan ajar *e-learning* berbasis CTL menggunakan aplikasi *moodle* sangat valid dan layak digunakan dengan persentase ahli bahan ajar 84,5% dan reliabilitas 90,8%. Ahli materi memberikan penilaian rata-rata 82% dengan kategori sangat valid dan reliabilitas 92% dengan kategori reliabel. (2) Keterbacaan memperoleh nilai rata-rata 85,9% dengan kategori sangat baik. (3) Keterampilan berpikir kritis siswa sebelum dan sesudah menggunakan bahan ajar *e-learning* berbasis CTL menggunakan aplikasi *moodle* meningkat. Uji hipotesis menunjukkan nilai signifikansi 0,00 yang kurang dari 0,05 dan $t_{hitung} \leq t_{tabel} \leq -t_{tabel}$ ($-7,299 \leq 2,120 \leq -2,120$) sehingga H_0 ditolak. Terdapat peningkatan keterampilan berpikir kritis siswa dari rendah ke sedang. (4) Hasil rata-rata respon siswa 75,53% dengan kategori sangat menarik. Bahan ajar *e-learning* berbasis CTL menggunakan aplikasi *moodle* dapat meningkatkan keterampilan berpikir kritis siswa.

Kata kunci: Bahan ajar, CTL, *e-learning*, keterampilan berpikir kritis, *moodle*.

Mala Mulia. 2018. *Developing of teaching material based on CTL with moodle aplication for training critical thinking*. Thesis, Natural Science Education Study Program, Education Faculty, University Of Trunojoyo Madura. Advisor I Laila Khamsatul Muharrami and Advisor II Ana Yuniasti Retno Wulandari.

ABSTRACT

The aim of this study is to know validate, readable, critical thinking skills of students, and student response of teaching material. The development point of material is e-learning teaching material based on CTL over critical thinking skills using moodle application. This study is research and development by using Borg & Gall model. Design of this research use One-group-pretest-posttes design. The study was did in SMP Negeri 1 Socah class VII C with 17 students in the even semester of the 2017/2018 academic year. Based of the result of this study are: (1) teaching materials based on CTL using moodle application is very valid and suitable to use with the expert teaching materials percentage of 84.5% and 90.8%. Expert material gives an average rating of 82% with category is very valid and reliability 92% with reliable category. (2) Readability gets an average grade of 85.9% wich is very good category. (3) Students' critical thinking skills before and after using CTL based learning materials using moodle applications increases. The hypothesis test shows a significance value of 0.00 that is less than 0.05 and $t_{countable} \leq t_{table} \leq -t_{table}$ ($-7.299 \leq 2,120 \leq -2.120$) so that H_0 is rejected. There is an improvement in students' critical thinking skills from low to intermediate. (4) The average student response rate is 75,53% with very interesting category. CTL-based e-learning teaching materials using moodle applications can improve students' critical thinking skills.

Keywords: *Teaching material, Contextual Teaching and Learning, e-learning, critical thingking, moodle.*