

Noor Hafiza Intan Salsabila. 2024. *Pengembangan E-module Berbasis SSI Materi Ekologi dan Keanekaragaman Hayati Indonesia Untuk Melatih Kemampuan Berpikir Kritis*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Eva Ari Wahyuni, Ph.D.

ABSTRAK

E-module pada materi ekologi dan keanekaragaman hayati Indonesia yang dipadukan dengan SSI. Pengembangan *e-module* bertujuan untuk mengetahui kelayakan, keterbacaan dan respon siswa terhadap *e-module*, serta kemampuan berpikir kritis siswa. Model pengembangan yang digunakan adalah model pengembangan ADDIE. Subjek uji coba siswa kelas VII SMPN 1 Tikung. Instrumen penelitian yang digunakan adalah, validasi ahli media, ahli materi, angket respons, angket keterbacaan, dan tes berpikir kritis. Hasil penelitian yang telah dilakukan, berikut : (1) Hasil kelayakan media, *e-module* berbasis SSI materi ekologi dan keanekaragaman hayati Indonesia untuk melatih kemampuan berpikir kritis memperoleh nilai validitas 1 kriteria validitas sangat tinggi, validasi materi dengan nilai validitas 1 kriteria validitas sangat tinggi, (2) Hasil respons siswa pada kelompok besar memperoleh nilai rata-rata sebesar 87% kriteria penilaian sangat baik dan hasil keterbacaan siswa memperoleh nilai rata-rata 87% kriteria terbaca, (3) Hasil tes berpikir kritis siswa mengalami peningkatan setelah penggunaan *e-module* dengan nilai N-gain sebesar 0,8 dengan kriteria tinggi. Hal tersebut menunjukkan bahwa *e-module* berbasis SSI materi ekologi dan keanekaragaman hayati Indonesia untuk melatih kemampuan berpikir kritis layak digunakan sebagai bahan ajar dan sumber belajar dalam pembelajaran IPA serta mampu meningkatkan kemampuan berpikir kritis siswa.

Kata kunci: berpikir kritis, ekologi, *e-module*, keanekaragaman hayati Indonesia, *socio scientific issues*

Noor Hafiza Intan Salsabila. 2024. *Development of SSI-Based E-module on Indonesian Ecology and Biodiversity Materials to Train Critical Thinking Skills*. Thesis, Departement of Natural Science Education, Faculty of Education, Universitas Trunojoyo Madura. Advisor: Eva Ari Wahyuni, Ph.D.

ABSTRACT

E-module on Indonesian ecology and biodiversity material combined with SSI. The development of e-modules aims to determine the feasibility, readability and response of students to e-modules, as well as students' critical thinking skills. The development model used is the ADDIE development model. The test subject is a grade VII student of SMPN 1 Tikung. The research instruments used are validation of media experts, material experts, response questionnaires, readability questionnaires, and critical thinking tests. The results of the research that have been carried out are as follows: (1) The feasibility results of the media, SSI-based e-module of Indonesian ecology and biodiversity materials to train critical thinking skills obtained a validity value of 1 very high validity criterion, material validation with a validity value of 1 very high validity criterion, (2) The results of student responses in large groups obtained an average score of 87% of the assessment criteria were very good and the readability results of students obtained an average score of 87% of the reading criteria, (3) The results of the students' critical thinking test increased after the use of the e-module with an N-gain value of 0.8 with high criteria. This shows that the SSI-based e-module of Indonesian ecology and biodiversity material to train critical thinking skills is worthy of being used as a teaching material and learning resource in science learning and is able to improve students' critical thinking skills.

Keywords: *critical thinking, ecology, e-module, Indonesia's biodiversity, socio scientific issues*