

ABSTRAK

Sartika Sari Sinaga. 8246181002. Pengembangan E-Modul Ajar IPA Berbasis *Inquiry Learning* Untuk Meningkatkan HOTS Literasi Sains Siswa di Kelas V SDN 104212 Kecamatan Patumbak.

Penelitian ini bertujuan untuk mendeskripsikan : 1) Kevalidan, Kepraktisan dan Keefektifan-Modul Ajar IPA Berbasis *Inquiry Learning* pada mata pelajaran IPA materi Harmoni dalam Ekosistem di Kelas V sekolah dasar. Penelitian ini menggunakan metode penelitian dan pengembangan (Research and Development) dengan model pengembangan ADDIE yang meliputi tahap Analysis, Design, Development, Implementation dan Evaluation. Subjek penelitian ini adalah siswa kelas V SDN 104212 Kecamatan Patumbak yang berjumlah 25 siswa. Hasil penelitian menunjukkan : (1) E-Modul Ajar yang dikembangkan Secara keseluruhan rata-rata persentase kelayakan adalah 88 % berada pada katagori sangat layak; (2) E-modul ajar yang dikembangkan dinyatakan praktis berdasarkan hasil angket respon siswa dengan persentase rata-rata skor yang berada pada kriteria 92% yang berarti e-modul mudah digunakan; (3) E-modul ajar dinyatakan efektif diperoleh data bahwa nilai pretest siswa memiliki rata-rata sebesar 57,84 dengan nilai minimum 44 dan nilai maksimum 69, serta standar deviasi sebesar 85,64. Selain itu, hasil perhitungan N-Gain menunjukkan rata-rata sebesar 0,659 yang termasuk dalam katagori sedang. Selajutnya hasil uji one sample t-test menunjukkan diperoleh nilai signifikan $p < 0,001$ yaitu lebih kecil dari 0,05, yang berarti rata-rata peningkatan hasil belajar secara signifikan lebih tinggi dari nilai yang dihipotesiskan ($\mu = 30$) Dengan demikian H_0 ditolak dan H_a diterima, sehingga dapat disimpulkan bahwa e-modul aar IPA berbasis *inquiry learning* efektif meningkatkan HOTS literasi sains siswa.

Kata Kunci: E-modul Ajar, *Inquiry Learning*, HOTS Literasi Sains, Sekolah Dasar



ABSTRACT

Sartika Sari Sinaga. 8246181002. Development of Inquiry-Based Science Teaching E-Modules to Improve Students' Higher Order Thinking Skills in Science Literacy in Grade V of SDN 104212 Patumbak District.

This study aims to describe: 1) Validity, Practicality and Effectiveness-Inquiry Learning-Based Science Teaching Module in Science subject Harmony in Ecosystem material in Class V elementary school. This research uses the research and development method (Research and Development) with the ADDIE development model which includes the Analysis, Design, Development, Implementation and Evaluation stages. The subjects of this study are grade V students of SDN 104212 Patumbak District which totals 25 students. The results of the study showed: (1) The E-Teaching Module developed Overall the average percentage of eligibility is 88% in the very feasible category; (2) The e-module developed is declared practical based on the results of the student response questionnaire with an average score percentage that is at the criterion of 92%, which means that the e-module is easy to use; (3) The e-teaching module was declared effective from data obtained that the students' pretest score had an average of 57.84 with a minimum score of 44 and a maximum score of 69, as well as a standard deviation of 85.64. In addition, the results of the N-Gain calculation show an average of 0.659 which is included in the medium category. Subsequently, the results of the one sample t-test showed a significant value of $p < 0.001$, which was less than 0.05, which means that the average increase in learning outcomes was significantly higher than the hypothetical value ($\mu = 30$) Thus it was rejected and accepted, so it can be concluded that the inquiry-based science aar e-module H_0 rejected and H_a accepted so it can be concluded that the inquiry learning-based science aar e-module is effective in increasing students' science literacy HOTS.

Keywords: E-learning Module, Inquiry Learning, HOTS Science Literacy, Elementary School

