

Tita Setyaningtyas. 2022. *Pengembangan Modul Elektronik IPA Berbasis SETS pada Materi Pencemaran Lingkungan*. Skripsi. Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Wiwin Puspita Hadi.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kelayakan, keterbacaan, dan respons siswa terhadap pengembangan modul elektronik IPA berbasis *SETS* pada materi pencemaran lingkungan. Penelitian pengembangan ini dilakukan di SMPN 1 Beji tahun ajaran 2021/2022. Pengembangan dilakukan dengan menerapkan model *ADDIE* yang memiliki alur analisis, perancangan, pengembangan, implementasi, dan evaluasi. Kelayakan modul dikumpulkan dengan lembar validasi oleh ahli dan guru IPA. Keterbacaan modul dihitung dengan formula *Gunning Fog Index*. Respons siswa dikumpulkan melalui angket respons siswa dengan subjek uji coba sejumlah 15 siswa. Hasil penelitian menunjukkan: 1) Segi media memperoleh 94,6% validitas dan 97,3% reliabilitas, serta segi materi memperoleh 90,5% validitas dan 93,3% reliabilitas, sehingga hasil dinyatakan layak, 2) Keterbacaan modul sangat tinggi dan mudah dipahami karena mendapat nilai rata-rata GFI sebesar 5,78 ($GFI < 8$), 3) Hasil respons siswa rata-rata sebesar 90,36% yang menunjukkan bahwa modul mendapatkan penilaian yang sangat positif dari siswa.

Kata Kunci: Modul Elektronik IPA, *SETS*, Pencemaran Lingkungan

Tita Setyaningtyas. 2022. *Development of SETS-based Science Electronic Modules on Environmental Pollution Subjects*. Thesis. Science Education Program Study, Faculty of Education, University of Trunojoyo Madura. Advisor: Wiwin Puspita Hadi.

ABSTRACT

This study aims to determine the feasibility, readability, and student responses to the development of SETS-based science electronic modules on environmental pollution subjects. This research was conducted at SMPN 1 Beji in the 2021/2022 academic year. The development is carried out by applying the ADDIE model which has a flow of analysis, design, development, implementation, and evaluation. The feasibility of the module was collected with a validation sheet by experts and science teachers. The readability was calculated by the Gunning Fog Index formula. Student responses were collected through a questionnaire with 15 students as the test subject. The results showed: 1) The media aspect obtained 94.6% validity and 97.3% reliability, and the material aspect obtained 90.5% validity and 93.3% reliability, so the results were declared feasible, 2) The readability of the module was very high and easy to understood because it got an average GFI score of 5.78 ($GFI < 8$), 3) The average student response result was 90.36% which indicates that the module received a very positive assessment from students.

Keywords: *Science Electronic Module, SETS, Environmental Pollution*