

Syaidin Joyo Biroso. 2023. *Pengembangan Modul Elektronik Berbasis Ctl (Contextual Teaching And Learning) Pada Materi Suhu Dan Kalor Di Kelas XI SMA Negeri 1 Torjun*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing Dr.Sigit Dwi Saputro, S.Pd., M.Pd.

ABSTRAK

Pemilihan metode dan perangkat pembelajaran yang kurang tepat dapat membuat siswa di SMAN 1 Torjun mudah bosan pada saat proses pembelajaran terutama di mata pelajaran fisika pada materi suhu dan kalor. Penelitian ini bertujuan untuk mengembangkan modul elektronik berbasis CTL (*Contextual Teaching and Learning*) pada materi suhu dan kalor di kelas XI SMA. Penelitian ini menggunakan model penelitian ADDIE yang mempunyai beberapa tahapan seperti *Analysis* (analisis), *Design* (perencanaan), *Development* (pengembangan), *Implementation* (penerapan), *Evaluation* (evaluasi). Bertempat di SMA Negeri 1 Torjun dengan subjek penelitian siswa kelas XI. Hasil dari penelitian ini memiliki kriteri sangat valid karena mendapatkan 88% dari ahli media, 84% dari ahli materi, 94,78% dari ahli konstruk, sedangkan dari uji coba kelompok kecil mendapatkan hasil 82.7% dan uji kelompok besar mendapatkan hasil 87,9% dengan Kriteria interpretasi sangat baik. Dapat disimpulkan bahwa pengembangan modul *elektronik* berbasis *contextual teaching and learning* pada materi suhu dan kalor di kelas XI SMA layak digunakan dan dapat meningkatkan hasil belajar siswa.

Kata kunci : suhu dan kalor, E-modul, ADDIE.

Syaidin Joyo Biroso. 2023. Development of CTL (Contextual Teaching and Learning) Based Electronic Modules on Temperature and Heat Materials in Class XI of SMA Negeri 1 Torjun. Thesis, Informatics Education Study Program, Faculty of Education, Trunojoyo University, Madura. Supervisor Dr. Sigit Dwi Saputro, S.Pd., M.Pd.

ABSTRACT

Inappropriate selection of learning methods and devices can make students at SMAN 1 Torjun easily bored during the learning process, especially in physics subjects on temperature and heat. This study aims to develop an electronic module based on CTL (Contextual Teaching and Learning) on temperature and heat in class XI SMA. This study uses the ADDIE research model which has several stages such as Analysis, Design, Development, Implementation, and Evaluation. Located at SMA Negeri 1 Torjun with research subjects of class XI students. The results of this study have very valid criteria because they get 88% from media experts, 84% from material experts, 94.78% from construct experts, while the small group trial gets 82.7% results and the large group test gets 87.9% results. with very good interpretation criteria. It can be concluded that the development of an electronic module based on contextual teaching and learning on temperature and heat material in class XI SMA is feasible to use and can improve student learning outcomes.

Keywords: temperature and heat, E-module, ADDIE.