

ABSTRAK

PENGEMBANGAN *E-MODUL* MATERI KARYA ILMIAH BERBASIS *SCIENCE, ENVIRONMENT, TECHNOLOGY, SOCIETY (SETS)* SISWA SMA KELAS XI

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Penelitian ini membahas pengembangan *E-Modul* Karya Ilmiah berbasis *Science, Environment, Technology, and Society (SETS)* siswa SMA kelas XI serta kelayakan mengenai *E-Modul* tersebut. Tujuan penelitian ini adalah untuk menghasilkan produk bahan ajar berupa *E-Modul* dan mendeskripsikan kelayakan produk *E-Modul* Karya Ilmiah berbasis *Science, Environment, Technology, and Society (SETS)* siswa SMA kelas XI. Penelitian ini menggunakan metode *Research and Development* dengan mengadopsi tujuh dari sepuluh langkah penelitian pengembangan menurut Borg and Gall.

Subjek penelitian terdiri dari validator, yaitu dua dosen yang mencakup ahli materi, ahli media, praktisi bahasa Indonesia, serta siswa dari SMA Negeri 1 Bandar Lampung, SMA Negeri 16 Bandar Lampung, SMA Al Husna Bandar Lampung. Teknik pengumpulan data dalam penelitian ini meliputi dokumentasi, observasi, wawancara, dan angket. Analisis data dilakukan dengan menggunakan analisis deskriptif, sementara instrumen penelitian yang digunakan adalah skala *likert* dan kuesioner.

Hasil penelitian menunjukkan bahwa (1) *E-Modul* Karya Ilmiah berbasis *Science, Environment, Technology, and Society (SETS)* siswa SMA kelas XI berhasil dikembangkan; dan (2) *E-Modul* yang dikembangkan termasuk dalam kategori sangat layak. Hasil uji coba ahli menunjukkan kategori sangat layak dengan penilaian ahli materi sebesar 85,8; ahli media sebesar 88,6; dan praktisi sebesar 91,1. Selain uji validasi oleh para ahli, uji kelayakan berdasarkan pendapat dan pandangan siswa sebagai pengguna *E-Modul* memperoleh penilaian sebesar 91 yang juga tergolong sangat layak. Penilaian kelayakan dari siswa mencakup tiga aspek, yaitu aspek kemenarikan, aspek kemudahan penggunaan, dan aspek kemanfaatan.

Kata kunci: *E-Modul*, Karya Ilmiah, *SETS*

ABSTRACT

THE DEVELOPMENT OF AN E-MODULE AN SCIENTIFIC WORK BASED ON SCIENCE, ENVIRONMENT, TECHNOLOGY, AND SOCIETY (SETS) FOR 11th GRADE HIGH SCHOOL STUDENTS

By

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This research examines the development of an E-Module on Scientific Work based on Science, Environment, Technology, and Society (SETS) for 11th-grade high school students, as well as the feasibility of the E-Module. The objectives of this study are to generate an educational product in the form of an E-Module and to describe the feasibility of the E-Module on Scientific Work based on Science, Environment, Technology, and Society (SETS) for 11th-grade high school students. The study used the Research and Development method by adopting seven out of ten development steps according to Borg and Gall.

The subjects of the investigation consisted of validators; two lecturers, including experts in content, media, and Indonesian language practitioners, as well as students from SMA Negeri 1 Bandar Lampung, SMA Negeri 16 Bandar Lampung, and SMA Al-Husna Bandar Lampung. The data collection techniques in the study included documentation, observation, interviews, and questionnaires.

Data analysis was conducted using descriptive analysis, while the research instruments used were the Likert scale and a questionnaire. The research findings showed that: (1) the E-Module on Scientific Work based on Science, Environment, Technology, and Society (SETS) for 11th-grade high school students was successfully developed; and (2) the developed E Module was categorized as highly feasible. The expert trial results showed a very feasible category, with content expert assessment at 85.8, media expert assessment at 88.6, and practitioner assessment at 91.1. In addition, the expert validation tests, the feasibility test based on the opinions and views of students as users of the E-Module received a score of 91, which also fell into the very feasible category. The feasibility assessment from students covered three aspects: the attractiveness, the ease of the implementation, and the usefulness.

Keywords: E-Modul, Scientific Work, SETS