

ABSTRAK

Ayu Diah Wardhani Limbong, NIM 4183351007 (2023). Desain E-Modul Mitigasi Bencana Berbasis *Science, Environment, Technology, Society* (SETS) Pada Materi Lapisan Bumi Dan Bencana Alam SMP Kesuma Bangsa.

Penelitian ini bertujuan untuk menganalisis implementasi landasan ilmu pendidikan dalam pengembangan e-modul, khususnya desain e-modul mitigasi bencana berbasis *Science, Environment, Technology, Society* (SETS) pada materi Lapisan Bumi dan Bencana Alam SMP Kesuma Bangsa. Metode yang digunakan penelitian ini adalah pengembangan atau yang biasa dikenal dengan metode *Research and Development* (R & D) yang mengadopsi langkah pengembangan model pendekatan *analysis, design, development, implementation* dan *evaluation* (ADDIE). Penelitian ini dilakukan pada tahun ajaran 2022/2023, dengan tahap pelaksanaan yaitu dimulai pada bulan September-Oktober 2022. Berdasarkan respon guru mata pelajaran IPA kelas VII SMP Kesuma Bangsa bahan ajar e-modul mitigasi bencana berbasis SETS pada materi Lapisan Bumi dan Bencana Alam memiliki kriteria sangat layak untuk digunakan sebagai bahan ajar. Berdasarkan respon peserta didik melalui penilaian kelompok kecil, bahan ajar e-modul mitigasi bencana berbasis SETS pada materi Lapisan Bumi dan Bencana Alam kelas VII SMP Kesuma Bangsa memiliki kriteria sangat baik untuk digunakan dalam pembelajaran. Berdasarkan hasil pembahasan peserta didik kelompok kecil memperoleh rata-rata kategori “tinggi” menunjukkan bahwa bahan ajar e-modul mitigasi bencana berbasis SETS pada materi Lapisan Bumi dan Bencana Alam kelas VII SMP Kesuma Bangsa berpengaruh terhadap tingkat pemahaman peserta didik.

Kata kunci: E-modul, bahan ajar, model ADDIE, *Science, Environment, Technology, Society* (SETS), mitigasi bencana.

ABSTRACT

Ayu Diah Wardhani Limbong, NIM 4183351007 (2023). Design of E-Module Disaster Mitigation Based on Science, Environment, Technology, Society (SETS) on Material Layers of the Earth and Natural Disasters at Kesuma Bangsa Middle School.

This study aims to analyze the implementation of the foundation of educational science in the development of e-modules, specifically the design of the Science, Environment, Technology, Society (SETS)-based disaster mitigation e-module on the Earth Layers and Natural Disasters material at Kesuma Bangsa Middle School. The method used in this research is development or commonly known as the Research and Development (R&D) method which adopts the development steps of the analysis, design, development, implementation and evaluation approach or can be called the ADDIE model. This research was conducted in the 2022/2023 academic year, with the implementation phase starting in September-October 2022. Based on the responses of science subject teachers for class VII SMP Kesuma Bangsa teaching materials for SETS-based disaster mitigation e-module on the material Layers of the Earth and Disasters Nature has very appropriate criteria to be used as teaching materials. Based on student responses through small group assessments, the SETS-based disaster mitigation e-module teaching material on Earth Layers and Natural Disasters for 7th grade Kesuma Bangsa Middle School has very good criteria for use in learning. Based on the results of the discussion, small group students obtained an average "high" category indicating that the SETS-based disaster mitigation e-module teaching material on the Earth Layers and Natural Disasters material for class VII SMP Kesuma Bangsa affects the level of understanding of students.

Keywords: E-module, teaching materials, ADDIE model, Science, Environment, Technology, Society (SETS), disaster mitigation.