

Wasilatun Nikmah. 2026. *Pengembangan E-module Konteks Pantai Talang Siring pada Materi Ekologi dan Keanekaragaman Hayati Indonesia untuk Meningkatkan Literasi Sains*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Yamin

ABSTRAK

Penelitian ini bertujuan untuk mengetahui tingkat kevalidan produk, keterbacaan, respons siswa terhadap *e-module* yang dikembangkan, serta peningkatan literasi sains pada aspek kompetensi. Materi yang dimuat dalam *e-module* konteks Pantai Talang Siring adalah ekologi dan keanekaragaman hayati Indonesia kelas VII. Penelitian ini adalah jenis penelitian *Research and Development* (R&D) dengan model pengembangan ADDIE (*Analyze, Design, Development, Implementation, and Evaluation*). Desain penelitian ini menggunakan *one group pretest-posttest*. Penelitian dilaksanakan di SMP Negeri 2 Pamekasan dengan subjek siswa kelas VII dan IX tahun ajaran 2025/2026. Uji coba perorangan pada 3 siswa kelas IX, uji coba kelompok kecil pada 10 siswa kelas IX, serta tahap implementasi pada 32 siswa kelas VII. Hasil penelitian menunjukkan bahwa: (1) *e-module* memperoleh nilai validasi ahli materi sebesar 91% dan ahli media sebesar 90,63% dengan kategori sangat valid, (2) tingkat keterbacaan *e-module* mencapai 97,66% dengan kategori sangat baik, (3) respons siswa terhadap *e-module* sebesar 96,27% dengan kategori sangat baik, serta (4) terjadi peningkatan kemampuan literasi sains siswa dengan nilai *n-gain* sebesar 0,52 yang termasuk kategori sedang. Dengan demikian, dapat disimpulkan bahwa *e-module* konteks Pantai Talang Siring valid digunakan dalam pembelajaran, memiliki tingkat keterbacaan yang sangat baik, mendapatkan respons positif dari siswa, serta mampu meningkatkan literasi sains pada aspek kompetensi.

Kata kunci: ekologi, *e-module*, pantai talang siring, literasi sains

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ABSTRACT

This study aims to determine the validity of the product, its readability, student responses to the developed e-module, and improvements in science literacy in terms of competencies. The content included in the e-module set in the context of Talang Siring Beach covers Indonesian ecology and biodiversity for seventh-grade students. This study is a Research and Development (R&D) study using the ADDIE model (Analyze, Design, Development, Implementation, and Evaluation). The research design employs a one-group pretest-posttest design. The study was conducted at SMP Negeri 2 Pamekasan with seventh- and ninth-grade students as subjects during the 2025/2026 academic year. Individual pilot testing was conducted on 3 ninth-grade students, small-group pilot testing on 10 ninth-grade students, and the implementation phase involved 32 seventh-grade students. The research results showed that: (1) the e-module received a content expert validation score of 91% and a media expert validation score of 90.63%, both categorized as highly valid; (2) the readability level of the e-module reached 97.66%, categorized as very good; (3) student response to the e-module was 96.27%, categorized as very good, and (4) there was an increase in students' science literacy skills with an n-gain value of 0.52, categorized as moderate. Thus, it can be concluded that the e-module based on the Talang Siring Beach context is valid for use in learning, has a very good readability level, receives positive responses from students, and is capable of improving science literacy in terms of competencies.

Keywords: *ecology, e-module, talang siring beach, science literacy*