

Erlina Wardani. 2026. *Pengembangan E-Booklet Berbasis Ethnoscience Socio-Scientific Issues (ESSI) Pantai Banyusangka untuk Meningkatkan Literasi Sains Siswa*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Mochammad Yasir.

ABSTRAK

Penelitian ini bertujuan untuk mendeskripsikan tingkat kevalidan produk, keterbacaan, respons siswa, serta peningkatan kemampuan literasi sains siswa setelah menggunakan *E-Booklet* berbasis *Ethnoscience Socio-Scientific Issues (ESSI)* Pantai Banyusangka pada materi ekologi dan keanekaragaman hayati. Penelitian ini merupakan penelitian pengembangan *Research and Development (R&D)* dengan model ADDIE yang meliputi tahap *analyze, design, develop, implement, dan evaluate*. Desain penelitian menggunakan *one-group pretest-posttest*. Penelitian dilaksanakan di SMPN 1 Tanjung Bumi dengan subjek uji perorangan sebanyak 3 siswa, uji kelompok kecil sebanyak 9 siswa, dan uji skala besar sebanyak 30 siswa. Teknik pengambilan sampel menggunakan *purposive sampling*. Instrumen penelitian meliputi lembar validasi, angket keterbacaan, angket respons siswa, dan tes literasi sains. Produk dikembangkan menggunakan bantuan aplikasi *Canva Pro* dan *Flipbook*. Hasil penelitian menunjukkan bahwa pengembangan *E-Booklet* telah divalidasi oleh validator ahli media dan materi dengan hasil validasi media rerata 91,18% dengan kriteria sangat valid dan hasil validasi materi rerata 89,47% dengan kriteria sangat valid. *E-Booklet* memperoleh hasil keterbacaan yang sangat baik dengan nilai sebesar 89,72% pada tahap implementasi, 83,68% kelompok kecil, dan 88,19% pada uji perorangan. *E-Booklet* memperoleh hasil respons yang sangat baik dengan nilai sebesar 92,85% pada tahap implementasi, 83,80% kelompok kecil, dan 85,76% pada uji perorangan. Selain itu, peningkatan kemampuan literasi sains siswa diperoleh nilai *N-Gain* sebesar 0,64 dengan kriteria sedang.

Kata kunci: *E-Booklet*, ESSI, Literasi Sains, Pantai Banyusangka.

Erlina Wardani. 2026. *Development of E-Booklet Based on Ethnoscience Socio-Scientific Issues (ESSI) Banyusangka Beach to Improve Students' Science Literacy*. Skripsi, Thesis, Biology Education Study Program, Faculty of Teacher Training and Education, Trunodjoyo Madura University. Supervisor: Mochammad Yasir.

ABSTRACT

This study aims to describe the levels of product validity, readability, student responses, and improvements in students' science literacy skills after using the Ethnoscience Socio-Scientific Issues (ESSI)- based *E-Booklet* Banyusangka Beach on ecology and biodiversity materials. This research is a *Research and Development* (R&D) research with the ADDIE model, which includes the *analysis, design, development, implementation, and evaluation* stages. The research design used a *one-group pretest-posttest*. The research was conducted at SMPN 1 Tanjung Bumi, involving 3 individual test subjects, 9 small-group tests, and 30 large-scale tests. The sampling technique uses *purposive sampling*. The research instruments include validation sheets, readability questionnaires, student response questionnaires, and science literacy tests. The product was developed using *the Canva Pro* and *Flipbook apps*. The results of the study show that the development of *the E-Booklet* has been validated by media and material experts, with an average media validation result of 91.18% and very valid criteria, and an average material validation result of 89.47% and very valid criteria. *The E-Booklet* achieved excellent readability scores of 89.72% at the implementation stage, 83.68% in small groups, and 88.19% in individual tests. The *E-Booklet* obtained excellent results, with scores of 92.85% at the implementation stage, 83.80% in small groups, and 85.76% in individual trials. In addition, the improvement of students' science literacy skills obtained an N-Gain value of 0.64 with medium criteria.

Keywords: *E-Booklet, ESSI, Science Literacy, Banyusangka Beach.*