

## ABSTRAK

**Putri Mahardika, NIM 4203111047 (2024). Pengembangan *E-Modul* Berbasis Pendekatan *Realistic Mathematics Education* Untuk Meningkatkan Kemampuan Literasi Statistik Siswa Sekolah Menengah Pertama**

Penelitian ini bertujuan untuk mengetahui kualitas pengembangan *e-modul* yang memenuhi kriteria valid, praktis, dan efektif. Jenis penelitian yang digunakan adalah *Research and Development* dengan model ADDIE. Subjek penelitian adalah siswa kelas VIII-2 SMP Prayatna Medan semester genap tahun ajaran 2023/2024 yang berjumlah 18 siswa. Hasil penelitian yang dilakukan menunjukkan bahwa *e-modul* berbasis pendekatan *Realistic Mathematics Education* yang dikembangkan memenuhi kriteria valid berdasarkan persentase penilaian validitas ahli media sebesar 92,08% dan ahli materi sebesar 86,66% dengan kategori sangat valid. Memenuhi kriteria praktis berdasarkan penilaian respon guru sebesar 90% dan respon siswa sebesar 90,34% dengan kategori sangat praktis dan memenuhi kriteria efektif berdasarkan (1) ketuntasan belajar secara klasikal sebesar 89%, (2) ketercapaian indikator/ tujuan pembelajaran sebesar 84,37%, (3) kemampuan guru mengelola pembelajaran sebesar 90,15%, dan (4) respon siswa positif terhadap *e-modul* sebesar 95%. Peningkatan kemampuan literasi statistik siswa yang diberikan melalui *e-modul* berbasis *Pendekatan Realistic Mathematics Education* memperoleh kenaikan rata-rata sebesar 34,37 dari test kemampuan awal (*Pretest*) dengan rata-rata nilai sebesar 43,75 meningkat menjadi 78,15 pada tes kemampuan akhir (*Posttest*). Dari keseluruhan indikator literasi statistik diperoleh rata-rata N-Gain sebesar 0,798 dengan kategori tinggi.

**Kata Kunci :** Pengembangan *E-modul*, Pendekatan *Realistic Mathematics Education*, Model Pengembangan ADDIE, Kemampuan Literasi Statistik

## ABSTRACT

### **Putri Mahardika, NIM 4203111047 (2024). Development of e-Modules Based on the Realistic Mathematics Education Approach to Improve Statistical Literacy Skills of Junior High School Students**

This study aims to determine the quality of e-module development that meets the criteria of valid, practical, and effective. The type of research used is Research and Development with the ADDIE model. The subject of the study is 18 students in grades VIII-2 of SMP Prayatna Medan in the even semester of the 2023/2024 school year. The results of the research conducted showed that the e-module based on the Realistic Mathematics Education approach developed met the valid criteria based on the percentage of validity assessment of media experts of 92.08% and material experts of 86.66% with a very valid category. Met practical criteria based on the assessment of teacher response of 90% and student response of 90.34% with the category of very practical and met effective criteria based on (1) classical learning completeness of 89%, (2) achievement of learning indicators/objectives of 84.37%, (3) teacher's ability to manage learning by 90.15%, and (4) positive student response to e-module by 95%. The improvement of students' statistical literacy skills provided through e-modules based on the Realistic Mathematics Education Approach obtained an average increase of 34.37 from the initial ability test (Pretest) with an average score of 43.75 increased to 78.15 in the final ability test (Posttest). From all statistical literacy indicators, an average N-Gain of 0.798 was obtained in the high category.

**Keywords :** E-Modul Development, Realistic Mathematics Education Approach, ADDIE Development Model, Statistical Literacy Ability