

ABSTRAK

PUTRI OVIA AMANDA: Pengembangan E-Modul Matematika Berbasis *Realistic Mathematics Education* (RME) Berbantuan *Flip PDF Corporate Edition* Pada Materi Teori Peluang. **Program Studi Pendidikan Matematika FKIP Universitas Malikussaleh, 2026.**

Pembelajaran matematika pada materi teori peluang masih menghadapi kendala berupa kurangnya bahan ajar interaktif dan dominasi metode ceramah. Penelitian ini bertujuan mengembangkan E-Modul matematika berbasis *Realistic Mathematics Education* (RME) berbantuan *Flip PDF Corporate Edition* serta mengetahui tingkat kevalidan, tingkat kepraktisan, dan Tingkat keefektifannya. Penelitian menggunakan metode *Research and Development* (R&D) dengan model 4-D (*Define, Design, Develop, Disseminate*) yang dilaksanakan secara terbatas di MTsN 1 Kota Lhokseumawe pada peserta didik kelas VIII. Hasil penelitian menunjukkan validasi ahli media sebesar 85,45%, ahli materi 89,09%, dan ahli bahasa 86,67% dengan kategori sangat valid. Respons guru sebesar 90,00% dan peserta didik sebesar 83,33% dengan kategori sangat praktis. Keefektifan ditunjukkan oleh ketuntasan belajar klasikal sebesar 90,48% dengan kategori sangat efektif. Berdasarkan hasil tersebut, dapat disimpulkan bahwa E-Modul matematika berbasis *Realistic Mathematics Education* (RME) berbantuan *Flip PDF Corporate Edition* pada materi teori peluang memenuhi kriteria valid, praktis, dan efektif sehingga layak digunakan sebagai bahan ajar digital dalam pembelajaran matematika.

Kata kunci: E-Modul; *Realistic Mathematics Education* (RME); *Flip PDF Corporate Edition*; Teori Peluang; Pengembangan.

ABSTRACT

PUTRI OVIA AMANDA: Development of a Mathematics E-Module Based on Realistic Mathematics Education (RME) Assisted by Flip PDF Corporate Edition for the Probability Theory Topic. **Mathematics Education Study Program, Faculty of Teacher Training and Education (FKIP), Malikussaleh University, 2026.**

Mathematics instruction regarding probability theory still faces challenges, specifically a lack of interactive teaching materials and the dominance of lecture-based methods. This study aims to develop a mathematics E-Module based on Realistic Mathematics Education (RME) using Flip PDF Corporate Edition and to determine its validity, practicality, and effectiveness. The study employed the Research and Development (R&D) method using the 4-D model (Define, Design, Develop, Disseminate), conducted on a limited scale with Grade VIII students at MTsN 1 Lhokseumawe City. The results showed validation scores of 85.45% from media experts, 89.09% from subject matter experts, and 86.67% from language experts, all falling into the "highly valid" category. Teacher response was 90.00% and student response was 83.33%, both categorized as "highly practical." Effectiveness was demonstrated by a classical learning mastery rate of 90.48%, categorized as "highly effective." Based on these results, it is concluded that the RME-based mathematics E-Module (assisted by Flip PDF Corporate Edition) for the probability theory topic meets the criteria of validity, practicality, and effectiveness, making it suitable for use as digital teaching material in mathematics instruction.

Keywords: E-Module; Realistic Mathematics Education (RME); Flip PDF Corporate Edition; Probability Theory; Development.