ABSTRAK

Tri Ananda Girsang, NIM 4182111028 (2023). Pengembangan E-modul Pembelajaran Matematika Berbasis Pendekatan Realistic Mathematics Education (RME) Dalam Pemahaman Konsep Terhadap Materi Peluang Kelas VIII SMP/MTs.

Penelitian ini memiliki tujuan mengembangkan serta menghasilkan produk E-modul pembelajaran matematika berbasis pendekatan Realistic Mathematics Education (RME) dalam pemahaman konsep terhadap materi peluang kelas VIII SMP/MTs yang valid, praktis dan efektif. Dilaksanakan di SMPS IT Al-Hijrah 2 Deli Serdang melalui metode mengembangkan perangkat 4D (Four D Model) dimulai dari tahap Define (Pendefinisian), Design (Perancangan), Development (mengembangkan) dan Desseminate (Penyebaran). Subjek yang digunakan pada riset adalah murid kelas VIII SMPS IT Al-Hijrah 2 Deli Serdang, yang berjumlah 18 orang. Berdasarkan hasil riset maka menunjukkan bahwa kualitas e-modul kegiatan belajar matematika yang dikembangkan layak digunakan berdasarkan aspek kevalidan, kepraktisan dan keefektifan yakni: (1) Aspek kevalidan, e-modul telah memenuhi kriteria kevalidan berdasarkan penilaian validator materi dan media dengan rata-rata yakni materi 3,88 dan media 3,91 dalam ketegori sangat layak. (2) Aspek kepraktisan berdasarkan hasil respon peserta didik dan guru matematika dengan memperoleh nilai rata-rata berturut-turut sebesar 3,79 (94,9%) dan 3,72 (93%) dalam ketegori sangat praktis. (3) Aspek keefektifan, e-modul telah memenuhi keefektifan dilihat dari hasil belajar murid secara kalsikal. Hasil diperoleh sebesar 89% dengan kategori efektif. Dengan demikian dapat disimpulkan bahwa e-mdul valid, praktis dan efektif digunakan dalam proses kegiatan pembelajaran.

Kata Kunci : E-modul, Peluang, Praktis, RME, Valid

ABSTRACT

Tri Ananda Girsang, NIM 4182111028 (2023). Development of a Mathematics Learning E-module Based on the Realistic Mathematics Education (RME) Approach in Understanding Concepts of Opportunity Material for Class VIII SMP/Mts.

The objective of this study is to develop and produce electronic module products for learning mathematics based on the realistic mathematics education (rme) approach to understand the concept of valid, practical and effective opportunity material. This study was conducted at SMP IT Al-Hijrah 2 Deli Serdang using the 4D model (four d-models) for device development, starting from the stages of definition, design, development and dissemination. The subjects of this study were 18 students from class viii smp it al-hijrah 2 deli serdang. Based on the results of the study, the quality of the developed e-modules for teaching mathematics was found to be usable based on the aspects of validity, usability and effectiveness, namely (1) Validity aspects, the e-modules have met the validity criteria based on the evaluation of material and media validators with an average of 3.88 material and 3.91 media with a highly feasible category. (2) Practicality aspect based on the results of students' and mathematics teachers' responses with an average score of 3.79 (94.9%) and 3.72 (93%) respectively, with a highly practical category. (3) Effectiveness aspect: the e-modules are effective in terms of students' learning outcomes. The result obtained was 89% in the effective category. Therefore, it can be concluded that the developed e-module is valid, practical and effective for use in the learning process.

Keywords: E-module, Opportunities, Partical, RME, 4D, Valid.