

ABSTRACT

This study aims to produce teaching materials in the form of e-modules on the material to build a conical curved side room that was valid, practical and has a potential effect. This research was based on the Indonesian Realistic Mathematics Education (PMRI) approach using the Malay Islamic context. This e-modules contained audio visuals that were attractively packaged using the canva application. This research uses research methods research Research and Development (R&D) based on Tessmer research model. The stages carried out were the preliminary stage and the prototyping stage using a formative evaluation flow consisting of self evaluation, expert review, one-to-one, small group and field test. The subjects of this study were students of level IX. This study resulted in (1) E-modules with "Very Valid" criteria seen from aspect of content, design and technical quality, (2) E-modules with "Very Practical" criteria seen from aspects of clarity, appeal, obvious errors, effectiveness, implementability, user acceptance and organizational acceptance, and (3) E-modules that has a potential score with an average value of 73,3 in the one-to-one stage of the "Medium" category, 79,96 in the small group stage of the "Medium" category and 86,0 in the field test stage in the "High" category.

Key words : *E-module, Build a conical curved side chamber, PMRI Approach, Malay Islamic context*

ABSTRAK

Penelitian ini bertujuan untuk menghasilkan bahan ajar berupa *e-modul* pada materi bangun ruang sisi lengkung kerucut yang valid, praktis dan memiliki efek potensial. Penelitian ini berbasis pendekatan Pendidikan Matematika Realistik Indonesia (PMRI) menggunakan konteks Islam Melayu dengan metode penelitian *Research and Development* (R&D) berdasarkan model penelitian *Tessmer*. *E-modul* ini memuat audio visual yang dikemas dengan menarik menggunakan aplikasi *canva*. Tahapan yang dilakukan yaitu tahap *preliminary* dan tahap *prototyping* menggunakan alur *formative evaluation* yang terdiri dari *self evaluation*, *expert review*, *one-to-one*, *small group* dan *field test*. Subjek penelitian ini adalah peserta didik kelas IX. Penelitian ini menghasilkan (1) *E-modul* dengan kriteria “Sangat Valid” dilihat dari aspek konten, desain dan kualitas teknis, (2) *E-modul* dengan kriteria “Sangat Praktis” dilihat dari aspek kejelasan, daya tarik, kesalahan yang nyata, keefektifan, daya implementasi, penerimaan pengguna dan penerimaan organisasi, dan (3) *E-modul* yang mempunyai efek potensial dengan rata-rata nilai 73,3 di tahap *one-to-one* kategori “Sedang”, 79,96 di tahap *small group* kategori “Sedang” dan 86,0 di tahap *field test* kategori “Tinggi”.

Kata kunci : *E-modul*, Bangun ruang sisi lengkung kerucut, Pendekatan PMRI, konteks Islam Melayu