

Abstract

This study aims to produce teaching materials in the form of flexible e-modules on cylinder and sphere geometric shapes using the PMRI approach in a Malay Islamic context in order to achieve effective, practical, efficient, and effective learning using the Canva application. This study used Tessmer's formative research and development research method. The stages are the preliminary stage and the formative evaluation flow development stage, namely self-evaluation, expert review, one-to-one, small group, and field tests. The subjects of this study were 23 class IX students at SMP IT Ar-Ridho Palembang. The data collection technique for this study used validation sheets, questionnaires, interviews, documentation, and student test results. The results showed that the developed e-module was valid based on the results of expert validation sheets, practical based on questionnaires, and had a potential effect on understanding the concept of 79,13% in the high category based on the results of student evaluation answers.

Keywords: *E-module, Geometry, Sphere, Cylinder, PMRI Approach, Malay Islam*

Abstrak

Penelitian ini bertujuan untuk menghasilkan bahan ajar berupa *e-modul* yang fleksibel pada materi bangun ruang tabung dan bola menggunakan pendekatan PMRI dengan konteks islam melayu agar tercapai pembelajaran yang efektif, praktis, efisien dan berdaya guna menarik menggunakan aplikasi canva. Penelitian ini menggunakan metode *development research* tipe *formative reseacrh* Tessmer. Tahapannya yaitu tahap *preliminary* dan tahap pengembangan alur *formative evaluation* yaitu *self evaluation*, *expert review*, *one-to-one*, *small group* dan *field test*. Subjek penelitian ini adalah 23 orang peserta didik kelas IX SMP IT Ar-Ridho Palembang. Teknik pengumpulan data penelitian ini menggunakan lembar validasi, lembar angket, wawancara, dokumentasi, dan hasil tes siswa, Hasil penelitian bahwa *e-modul* yang dikembangkan valid berdasarkan hasil lembar validasi ahli, praktis berdasarkan angket, dan memiliki efek potensial terhadap pemahaman konsep sebesar 79,13% dengan kategori tinggi dari hasil jawaban evaluasi peserta didik.

Kata Kunci: *E-modul*, Bangun Ruang, Bola, Tabung, Pendekatan PMRI, Islam Melayu