

ABSTRAK

Anjuni, Z. D. 2021. Pengembangan Media *Tursi Pocket Book* Dengan Pendekatan *Inkuiri* Terbimbing Terhadap Pemahaman Konsep Siswa Kelas XI. *Skripsi*. Program Studi Pendidikan Matematika. Universitas Muhammadiyah Semarang. Pembimbing : I. Venissa Dian Mawarsari, S.Pd., M.Pd, II. Dwi Sulistyaningsih, S.Si., M.Pd..

Kata Kunci : Pengembangan, *Tursi Pocket Book*, Pemahaman Konsep

Media pembelajaran yang memanfaatkan teknologi belum sepenuhnya diterapkan dalam proses pembelajaran. Berdasarkan hasil observasi diperoleh hasil belajar yang kurang maksimal karena pemahaman konsep siswa rendah. Siswa masih kesulitan untuk membangun sendiri pemahamannya, mengaitkan konsep – konsep matematis yang pernah dipelajari sebelumnya, serta kesulitan menerapkan formula yang cocok untuk menyelesaikan permasalahan yang diberikan. Oleh karena itu perlu adanya media pembelajaran yang dapat membantu siswa dalam meningkatkan pengetahuan yang telah dimilikinya. Tujuan penelitian untuk menentukan kevalidan media *Tursi Pocket Book* dengan pendekatan *inkuiri* terbimbing, mengetahui keefektifan media pembelajaran dan mengetahui kepraktisan media *Tursi Pocket Book* dengan pendekatan *inkuiri* terbimbing. Penelitian ini merupakan penelitian pengembangan dengan model 4D yang dibatasi sampai tahap 3D yaitu *Define*, *Design*, dan *Develop* karena terkendala waktu dan biaya. Teknik pengambilan sampel dengan *Simple Random Sampling*. Subjek yang digunakan dalam penelitian ini adalah kelas XI Matematika dan Ilmu Pengetahuan Alam (MIPA) 1, MIPA 2 dan MIPA 3. Hasil yang diperoleh pada penelitian ini yaitu uji validasi ahli media sebesar 4,19 dengan kriteria valid dan uji validasi ahli materi sebesar 4,12 dengan kriteria valid. Nilai evaluasi kemampuan pemahaman konsep siswa menggunakan media *Tursi Pocket Book* mencapai KKM sebesar 87,8 dengan persentase ketuntasan 96.8%. Terdapat pengaruh antara motivasi belajar dan kemandirian terhadap kemampuan pemahaman konsep dalam penerapan media *Tursi Pocket Book* sebesar 37,1% dan terdapat perbedaan rata-rata nilai kemampuan pemahaman konsep pada kelas eksperimen 87,8 dan kelas kontrol yaitu 78,6. Sedangkan hasil dari respon siswa sebesar 3,32 dan hasil respon guru sebesar 3,58 dengan kriteria sangat baik. Kesimpulan dari penelitian tersebut yaitu pengembangan media *Tursi Pocket Book* pendekatan *inkuiri* terbimbing terhadap kemampuan pemahaman konsep valid, efektif dan sangat praktis untuk digunakan.

ABSTRACT

Anjuni, Z. D. 2021. Development of Tursi Pocket Book Media with Guided Inquiry Approach to Concept Understanding of Class XI Students. Thesis. Mathematics Education Study Program. Muhammadiyah University Semarang. Advisors: I. Venissa Dian Mawarsari, S.Pd., M.Pd, II. Dwi Sulistyarningsih, S.Si., M.Pd.

Keywords: Development, Tursi Pocket Book, Concept Understanding

Learning media that utilize technology have not been fully applied in the learning process. Based on the results of observations, it was found that the learning outcomes were less than optimal because the students' understanding of the concept was low. Students still have difficulty building their own understanding, linking mathematical concepts that have been studied before, and difficulty applying suitable formulas to solve given problems. Therefore it is necessary to have learning media that can help students increase the knowledge they already have. The research objectives were to determine the validity of the Tursi Pocket Book media with a guided inquiry approach, to determine the effectiveness of instructional media and to determine the practicality of the Tursi Pocket Book media with a guided inquiry approach. This research is a development research with a 4D model which is limited to the 3D stage, namely Define, Design, and Develop due to time and cost constraints. The sampling technique was simple random sampling. The subjects used in this study were class XI Mathematics and Natural Sciences (MIPA) 1, MIPA 2 and MIPA 3. The results obtained in this study were the media expert validation test of 4.19 with valid criteria and the material expert validation test was 4.12 with valid criteria. The evaluation value of students' concept understanding ability using Tursi Pocket Book media reached the KKM of 87.8 with a percentage of 96.8% completeness. There is an influence between learning motivation and independence on the ability to understand concepts in the application of the Tursi Pocket Book media by 37.1% and there is a difference in the average value of the conceptual understanding ability in the experimental class of 87.8 and the control class, namely 78.6. While the results of student responses were 3.32 and the results of teacher responses were 3.58 with very good criteria. The conclusion of this research is the development of the Tursi Pocket Book media with a guided inquiry approach to the ability to understand concepts that are valid, effective and very practical to use.