

ABSTRAK

NURLIZA FAHMI LUBIS. Pengembangan Perangkat Pembelajaran Berbasis Pendekatan Matematika Realistik Untuk Meningkatkan Kemampuan Koneksi dan Kemandirian Belajar Siswa SMA Swasta Tunas Pelita Binjai. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2022.

Tujuan penelitian ini adalah: (1) menemukan perangkat pembelajaran berkualitas yang dikembangkan melalui pembelajaran berbasis pendekatan matematika realistik, (2) Mendeskripsikan kemampuan koneksi matematis siswa melalui perangkat pembelajaran yang dikembangkan melalui pembelajaran pendekatan matematika realistik, (3) Mendeskripsikan kemandirian belajar siswa melalui perangkat pembelajaran yang dikembangkan melalui pembelajaran berbasis pendekatan matematika realistik, (4) Mengetahui respon siswa terhadap perangkat pembelajaran yang dikembangkan melalui pembelajaran berbasis pendekatan matematika realistik. Penelitian ini merupakan penelitian pengembangan. Model pengembangan perangkat pembelajaran dalam penelitian ini diadaptasi dari model pengembangan 4-D yang terdiri dari tahap *define, design, develop, dan disseminate*. Uji coba dilakukan dengan tiga tahap yakni (1) uji validasi ahli; (2) uji coba terbatas; dan (3) uji coba lapangan. Instrumen penelitian ini yang digunakan adalah lembar validasi, lembar penilaian terhadap perangkat pembelajaran, dan lembar observasi terhadap pelaksanaan pembelajaran, tes koneksi matematis, dan skala kemandirian belajar. Analisis data kevalidan dan analisis data kepraktisan masing-masing dilakukan dengan mengkonversi data kuantitatif berupa skor hasil penilaian menjadi data kualitatif berupa nilai standar. Analisis data keefektifan tes koneksi matematis dilaksanakan dengan cara menentukan persentase ketuntasan minimal, sedangkan skala kemandirian belajar ditinjau dari peningkatan belajarnya. Penelitian ini memperoleh perangkat pembelajaran yang terdiri dari RPP, LKS, dan Buku Siswa. Masing-masing perangkat pembelajaran memenuhi kualitas valid, praktis, dan efektif.

Kata Kunci: Perangkat pembelajaran, Pendekatan Matematika Realistik, Koneksi Matematis, dan Kemandirian Belajar

ABSTRACT

NURLIZA FAHMI LUBIS. The development of Device-Based Learning Approach Realistic Mathematics To Improve the Ability of Connection and self-regulated Learning of Students high SCHOOL Private Tunas Pelita Binjai. Thesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2022.

The purpose of this study is: (1) to find the device quality learning developed through learning-based approach realistic mathematics, (2) Describe the connection ability of students ' mathematical through the learning device developed through learning approach realistic mathematics, (3) Describe the independence of student learning through the learning device developed through learning-based approach realistic mathematics, (4) find out the students ' response to the learning device developed through learning-based approach realistic mathematics. This research is a development research. The development Model of learning in this study is adapted from the nodek the development of 4-D which consists of the stages of define, design, develop, and disseminate. The test is done with three stages, namely (1) validation testing experts; (2) a limited trial; and (3) field trials. This research Instrument used is the validation sheet, sheet assessment of the learning device, and the observation sheet on the implementation of learning, connection test mathematically, and the scale of self-regulated learning. Analysis of data validity and data analysis practicality-each done with the convert quantitative data in the form of score results of the assessment into the qualitative data in the form of the standard value. Data analysis the effectiveness of the test connection is mathematically implemented by determining the percentage of completeness minimal, while the scale of self-regulated learning viewed from the increase in learning. This study obtained a learning device that consists of LESSON plans, WORKSHEETS, and booklets. Each device learning meet quality valid, practical, and effective.

Keywords: Software learning, this Mathematical Approach Realistic, Connections Mathematically, and Survivability Learn

