

ABSTRAK

SUHARMITA. Pengembangan E-Modul Melalui Model Pembelajaran Berbasis Problem Based Learning Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Apresiasi Matematika Siswa SMP Dharma Pancasila Medan. Tesis. Medan: Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan. 2024.

Penelitian ini bertujuan untuk mendeskripsikan: 1) validitas, kepraktisan dan efektifitas e-modul berbasis *problem based learning* yang dikembangkan terhadap peningkatan kemampuan pemecahan masalah dan apresiasi matematika siswa SMP Dharma Pancasila Medan; 2) peningkatan kemampuan pemecahan masalah peserta didik melalui e-modul berbasis *problem based learning* yang dikembangkan; 3) peningkatan apresiasi matematika peserta didik melalui e-modul berbasis *problem based learning* yang dikembangkan. Penelitian ini merupakan penelitian pengembangan dengan menggunakan model pengembangan ADDIE. Model pengembangan ini terdiri dari 5 tahap pengembangan yaitu *Analyze* (Analisis), *Define* (Definisi), *Development* (Pengembangan), *Implementation* (Implementasi) dan *Evaluation* (Evaluasi). Dari hasil uji coba I dan uji coba II diperoleh: 1) E-modul berbasis *problem based learning* yang dikembangkan terhadap peningkatan kemampuan pemecahan masalah dan apresiasi matematika siswa SMP Dharma Pancasila Medan, sudah memenuhi kriteria valid, praktis dan efektif; 2) Peningkatan kemampuan pemecahan masalah menggunakan e-modul berbasis *problem based learning* yang telah dikembangkan dilihat dari nilai *N-gain* pada uji coba I sebesar 0,36 meningkat menjadi 0,40 pada uji coba II, artinya berada dalam kategori “sedang”; dan 3) Peningkatan apresiasi matematika siswa menggunakan e-modul berbasis *problem based learning* yang telah dikembangkan dilihat dari nilai *N-gain* pada uji coba I sebesar 0,21 meningkat menjadi 0,32 pada uji coba II, artinya berada dalam kategori “sedang”.

Kata kunci: Pengembangan E-Modul, Model ADDIE, *Problem Based Learning*, Pemecahan Masalah, Apresiasi Matematika

ABSTRACT

Suharmita. Development of E-Modul Based on a Problem Based Learning Model to Improve Problem Solving Ability and Appreciation of Mathematics at SMP Dharma Pancasila Medan. Thesis. Medan: Postgraduate Mathematics Education Study Program, Univeritas Negeri Medan. 2024.

This study aims to describe: 1) the validity, practicality and effectiveness of e-modul based on a problem-based learning model that was developed to improve problem solving abilities and appreciation mathematics of students at SMP Dharma Pancasila Medan; 2) increasing students problem-solving abilities through E-Modul based on the developed problem-based learning model; 3) increasing student appreciation of mathematics through E-Modul based on the developed problem-based learning model. This research is a developmental research using the type of ADDIE development model. This development model consists of 5 stages of development, namely Analyze, Define, Development, Implementation and Evaluation. From the results of trial I and trial II, it was obtained: 1) E-modul based on a problem-based learning model to improve students' problem-solving skills and appreciation mathematics that was developed met valid, practical and effective criteria; 2) Improvement of problem-solving skills using e-modul based on a problem-based learning model that has been developed as seen from the N-gain value in trial I of 0.36 increased to 0.40 in trial II, meaning that it is in the "medium" category; and 3) Increasing student appreciation of mathematics with using e-modul based on a problem-based learning model which has been developed in terms of the N-gain value in trial I of 0.21 increased to 0.32 in trial II, meaning that it is in the "medium" category.

Keywords: E-Modul, ADDIE Model, Problem-Based Learning Model, Problem Solving, Appreciation Mathematics

