

ABSTRACT

Mona Trisna Cahyati. 2021. "Development of Physics Teaching Materials Based on Inquiry Based Learning Model with CTL Approach to Improve Students' Creative Thinking". Thesis. Physics Education Magister Faculty of Mathematics and Natural Sciences, Padang State University.

Learning based on the 2013 curriculum is oriented towards students to be active and able to find their own material so that students are trained in developing the knowledge they have and are able to improve students' creative thinking skills. The fact found that the learning carried out was not optimal. One of the contributing factors is that the teaching materials applied in the learning process are not in accordance with the needs and characteristics of students. The purpose of this study was to produce physics teaching materials based on the inquiry based learning model with the CTL approach to improve students' creative thinking with valid, practical and effective criteria.

This type of research is design research using the ADDIE model which consists of analysis, design, development, implementation, and evaluation stages. The research instrument is a needs analysis sheet, student characteristic analysis sheet, validity sheet, teacher practicality sheet, student practicality sheet, essay test, and skills assessment sheet. The data analysis technique used a descriptive percentage.

The results of the study in this study were teaching materials based on the inquiry based learning model with the CTL approach met the valid criteria with an average value of 0.798. The practicality of using teaching materials based on the inquiry-based learning model with the CTL approach by teachers and students has respective values with an average of 91.354 and 83.319 with very high practicality categories. Teaching materials based on the inquiry based learning model with the CTL approach are in the effective category based on the increase in the competence of knowledge and skills of students. The standards of validity, practicality and effectiveness have been met by teaching materials focused on the inquiry-based learning model with the CTL technique to promote creative thinking. Therefore, the teaching materials are suitable for use in learning activities at school.

Keywords: Material Teaching, inquiry based learning, approach CTL, creative thinking

ABSTRAK

Mona Trisna Cahyati. 2021. “Pengembangan Bahan Ajar Fisika Berbasis Model *Inquiry Based Learning* dengan Pendekatan *CTL* untuk Meningkatkan Berpikir Kreatif Peserta Didik”. Tesis. Program Studi Magister Pendidikan Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Padang.

Pembelajaran berdasarkan kurikulum 2013 berorientasi kepada peserta didik agar aktif dan mampu menemukan sendiri materi yang dipelajari agar peserta didik terlatih dalam mengembangkan pengetahuan yang mereka miliki serta mampu meningkatkan kemampuan berpikir kreatif peserta didik. Kenyataan yang ditemukan pembelajaran yang dilaksanakan belum optimal. Salah satu faktor penyebabnya adalah bahan ajar yang diterapkan dalam proses pembelajaran belum sesuai dengan kebutuhan dan karakteristik peserta didik. Tujuan penelitian ini adalah untuk menghasilkan bahan ajar fisika berbasis model *inquiry based learning* dengan pendekatan *CTL* untuk meningkatkan berpikir kreatif peserta didik dengan kriteria valid, praktis dan efektif.

Jenis penelitian ini adalah *design research* dengan menggunakan model ADDIE yang terdiri dari tahap *analysis, design, development, implementation, dan evaluation*. Instrumen penelitian ini adalah lembar analisis kebutuhan, lembar analisis karakteristik peserta didik, lembar validitas, lembar praktikalitas guru, lembar praktikalitas peserta didik, tes essay, dan lembar penilaian keterampilan. Teknik analisis data menggunakan deskriptif persentase.

Hasil penelitian pada penelitian ini adalah bahan ajar berbasis model *inquiry based learning* dengan pendekatan *CTL* memenuhi kriteria valid dengan nilai rata-rata 0,798. Praktikalitas penggunaan bahan ajar berbasis model *inquiry based learning* dengan pendekatan *CTL* oleh guru dan peserta didik memiliki nilai masing-masingnya dengan rata-rata yaitu 91,354 dan 83,319 dengan kategori kepraktisan sangat tinggi. Bahan ajar berbasis model *inquiry based learning* dengan pendekatan *CTL* berada pada kategori efektif berdasarkan peningkatan kompetensi pengetahuan dan keterampilan peserta didik. Bahan ajar berbasis model *inquiry based learning* dengan pendekatan *CTL* untuk meningkatkan berpikir kreatif telah memenuhi kriteria valid, praktis dan efektif. Oleh sebab itu, bahan ajar layak untuk digunakan dalam kegiatan pembelajaran di sekolah.

Kata kunci: Bahan ajar, *inquiry based learning*, pendekatan *CTL*, berpikir kreatif