

ABSTRACT

Shofia Ranti , 2019 "Development of Integrated Science LKPD based on Research Based Learning Integrated Value Religion . Thesis. Master Program in Physics Education, Faculty of Mathematics and Natural Sciences, Padang State University.

Science learning is presented in an integrated manner and learning is centered on students. This is intended so that science learning becomes more meaningful and learning objectives can be achieved. In reality, the availability of LKPD that instill religious values to students and the demands of the 2013 curriculum. Structurally, the LKPD used in schools are not yet equipped with learning instructions and supporting information. Learning competencies to be achieved are only focused on aspects of knowledge. The teaching method used by educators is lectures and resumes so that students only accept the material that has been given so that students have not been able to solve the problem given. Therefore, it is necessary to develop integrated science LKPD based on research based learning integrated religious values. The purpose of this study is to develop integrated science based LKPD based on research based learning integrated religious values that are valid, practical, and effective.

This type of research is research and development. The development model used is the ADDIE model which consists of the analysis stage (Analysis), design (Design), development (Development), testing (Implementation) and evaluation (Evaluate). At the analysis stage the initial analysis is carried out, analysis of the characteristics of students, task analysis and material analysis. The design phase is carried out design of the LKPD. The development stage is validation test, practicality test and effectiveness test. The implementation phase is carried out a trial and effectiveness test using the experimental class and the control class. The data obtained were analyzed using descriptive percentages for the final initial analysis and practicality, and validity analysis using the Aiken's formula V. The effectiveness test used the Hypothesis test, where the requirements for testing Hypotheses were that the data should be normally distributed (using the Normality test) and homogeneous (using Homogeneity test).

The results of the analysis, design, development, implementation and evaluation stages obtained products in the form of integrated science LKPD based on integrated research based learning religious values that meet valid criteria with an average of 0.82, practical (91% educators and 89% students). In addition, the developed LKPD also fulfills the effective criteria, where integrated science LKPD based on research based learning integrated religious values can be used to improve the competency of students. This is supported by sample data that are normally distributed and homogeneous. So that overall the developed LKPD is feasible in the learning process.

Keywords: Integrated Science, LKPD, Religious Values, Research Based Learning.

ABSTRAK

Shofia Ranti, 2019 “Pengembangan LKPD IPA Terpadu berbasis *Research Based Learning* Terintegrasi Nilai Religi. Tesis. Program Studi Magister Pendidikan Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Padang.

Pembelajaran IPA disajikan secara terpadu dan pembelajaran berpusat pada peserta didik. Hal ini ditujukan agar pembelajaran IPA menjadi lebih bermakna dan tujuan pembelajaran dapat tercapai. Pada kenyataannya, belum tersedianya LKPD yang menanamkan nilai religi pada peserta didik dan tuntutan kurikulum 2013. Secara struktural, LKPD yang digunakan disekolah belum dilengkapi dengan petunjuk belajar dan informasi pendukung. Kompetensi pembelajaran yang hendak dicapai hanya terfokus pada aspek pengetahuan. Metode mengajar yang digunakan guru adalah ceramah dan resume sehingga peserta didik hanya menerima materi serta belum mampu memecahkan masalah yang diberikan. Oleh karena itu, perlu dikembangkan LKPD IPA terpadu berbasis *research based learning* terintegrasi nilai religi. Tujuan penelitian ini adalah mengembangkan LKPD IPA terpadu berbasis *research based learning* terintegrasi nilai religi yang valid, praktis, dan efektif.

Jenis penelitian adalah penelitian pengembangan (*research and development*). Model pengembangan yang digunakan adalah model ADDIE yang terdiri dari tahap analisis (*Analysis*), perancangan (*Design*), pengembangan (*Development*), uji coba (*Implementation*) dan evaluasi (*Evaluate*). Pada tahap *analysis* dilakukan analisis awal akhir, analisis karakteristik peserta didik, analisis tugas dan analisis materi. Tahap *design* dilakukan perancangan terhadap LKPD. Tahap *development* dilakukan uji validasi, uji praktikalitas dan uji efektivitas. Tahap *implementation* dilakukan uji coba dan uji efektivitas menggunakan kelas eksperimen dan kelas kontrol. Data yang diperoleh dianalisis menggunakan deskriptif persentase untuk analisis awal akhir dan praktikalitas, serta analisis validitas menggunakan rumus *Aiken's V*. Uji efektivitas menggunakan uji Hipotesis, dimana syarat untuk melakukan uji Hipotesis adalah data harus berdistribusi normal (menggunakan uji Normalitas) dan homogen (menggunakan uji Homogenitas).

Hasil penelitian dari tahap analisis, perancangan, pengembangan, penerapan dan evaluasi diperoleh produk berupa LKPD IPA terpadu berbasis *research based learning* terintegrasi nilai religi yang memenuhi kriteria valid dengan rata-rata 0,82, praktis (pendidik 91% dan peserta didik 89%). Selain itu, LKPD yang dikembangkan juga memenuhi kriteria efektif, dimana LKPD IPA terpadu berbasis *research based learning* terintegrasi nilai religi dapat digunakan untuk meningkatkan kompetensi peserta didik. Hal ini didukung dengan data sampel yang terdistribusi normal dan homogen. Sehingga secara keseluruhan LKPD yang dikembangkan layak diterapkan pada proses pembelajaran.

Kata Kunci : IPA terpadu, LKPD, Nilai Religi, *Research Based Learning*.