ABSTRAK

Pengembangan Perangkat Pembelajaran Fisika Berbasis Model *Research Based Learning* Terintentegrasi Nilai-Nilai Karakter pada Materi Hukum Newton Tentang Gerak

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Berdasarkan hasil observasi yang dilakukan di MAN Lubuk Alung Kabupaten Padang Pariaman terlihat bahwa hasil belajar peserta didik masih belum mencapai KKM. Salah satu penyebabnya adalah perangkat pembelajaran yang disusun guru belum sesuai dengan tuntutan kurikulum. Guru belum menerapkan model *research based learning* terintegrasi nilai-nilai karakter dalam pembelajaran. Sumber belajar yang digunakan guru juga masih bersumber dari penerbit. Oleh karena itu, perlu dikembangkan perangkat pembelajaran dengan berbasis model *research based learning* terintegrasi nilai-nilai karakter. Tujuan penelitian ini adalah mengembangkan perangkat pembelajaran fisika dengan berbasis model *research based learning* terintegrasi nilai-nilai karakter pada materi hukum newton tentang gerak dengan kriteria 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)*, pengembangan (*development),* uji coba perangkat (*Implementation*) dan evaluasi (*evaluate*). Pada tahap analisis dilakukan analisis kurikulum, analisis peserta didik, dan analisis materi. Tahap pengembangan dilakukan perancangan terhadap perangkat pembelajaran berupa RPP, *handout,* LKPD, implementasi dilakukan uji coba perangkat dan penilaian kemudian dilakukan uji validasi perangkat. Selanjutnya pada tahap evaluasi dilakukan uji praktikalitas, dan uji efektivitas. Data penelitian uji validitas diperoleh melalui lembar validasi perangkat pembelajaran. Data uji praktikalitas diperoleh dari lembar observasi keterlaksanaan RPP dan angket respon guru dan peserta didik, selanjutnya data uji efekvifitas diperoleh dari penilaian aspek pengetahuan, karakter dan keterampilan peserta didik.

Hasil penelitian tahap analisis pada analisis kurikulum diperoleh KI dan KD 3.4 dan 4.4. Analisis peserta didik diperoleh bahwa peserta didik kelas X telah mampu untuk meningkatkan kemampuan peserta didik dalam pembelajaran berbasis model *research based learning* terintegrasi nilai-nilai karakter. Analisis materi dilakukan pada materi hukum newton tentang gerak. Pada tahap pengembangan diperoleh perangkat pembelajaran materi hukum newton tentang gerak berbasis model *research based learning* terintegrasi nilai-nilai karakter yang memenuhi kriteria valid (89,98), praktis (91,66) dan efektif (81,60). Sehingga layak diterapkan pada proses pembelajaran.

ABSTRACT

Development of Model Based Device Physics Education Research Based Learning Integrated Values Matter character in Newton's Law On Motion

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Based on observations conducted in MAN Lubuk Alung seen that the learning outcomes of students still have not reached the KKM. One reason is the learning tools that teachers have prepared in accordance with the demands of the curriculum. Teachers have not implemented an integrated model of research-based learning character values in learning. Learning resources used by teachers are still sourced from the publisher. Therefore, it is necessary to develop learning tools to have a base an integrated model of research-based learning character values. The purpose of this study is to develop a learning device physics by to have a base an integrated model of research-based learning character values in the material of Newton's laws of motion with valid criteria, practical, and effective. This type of research is the development of research (research and development). The development model used is a model ADDIE comprising the step of Analysis (Analysis), development (development), the test device (Implementation) and evaluation (Evaluate). In the analysis phase curriculum analysis, analysis of learners, and materials analysis.

The development phase is to design the learning tools such as lesson plans, handouts, LKPD, implementation trials conducted assessment tools and then do the validation test device. Furthermore, in evaluating the practicalities test, and test its effectiveness. The research data obtained through a validity test validation sheet learning device. The test data obtained from the practicalities of RPP observation sheets and questionnaire responses of teachers and learners, efekvifitas further test data obtained from the assessment aspects of knowledge, character and skills of learners.The results of the analysis phase research on curriculum analysis obtained by KI and KD 3.4 and 4.4. Analysis showed that the students of class X students have been able to improve the ability of learners in the learning-based experimental (laboratory). Material analysis carried out on the material of Newton's laws of motion. At this stage of development of learning materials obtained by the Newton's laws of motion by to have a base an integrated model of research-based learning character values are valid criteria (89.98), practical (91.66) and effective (81.60). Thus deserve to be applied to the learning process.