ABSTRACT

The Development of Physics Textbook for Senior High School with Research-Based Learning Model and Scientific Approach

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One of the keys to the success of the 2013 curriculum is adequate facilities and learning resources. Textbook is one of the learning resources used by learners. The quality of textbook must represent several criteria, including being able to motivate the user and can stimulate the personal activities of the user. But in reality, the lesson textbooks have not yet guided the student in stimulating their activities in the form of research. Research based-learning model is a type of learning that able to guide the students in research. The aim of the research is to develop the textbook with research-based learning model and scientific approach that valid, practical, and effective in improving the competences of the student. The type of research was research and development using Plomp model. It consists of preliminary research, prototyping research, and assessment phase. The research instrument consists of analysis sheet in the form of questionnaire, validation sheet, practicality sheet, essay test, attitude observation sheet, and skill observation sheet. Data analysis technique used descriptive percentages. The result showed that the textbook of physics for senior high school with research-based learning model was valid, very practical according to the teacher, practical according to the students, and effective in enhancing the student's competence include attitude competence, knowledge competence, and skill competence.

Keywords : textbook, research based learning model, scientific approach

ABSTRAK

Pengembangan Buku Teks Pelajaran Fisika SMA Berbasis Model *Research Based Learning* dan Pendekatan Saintifik

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Salah satu kunci sukses kurikulum 2013 yaitu fasilitas dan sumber belajar yang memadai. Buku teks pelajaran merupakan salah satu sumber belajar yang digunakan oleh peserta didik. Buku teks pelajaran yang berkualitas harus memenuhi beberapa kriteria, diantaranya mampu memberi motivasi kepada pemakainya dan dapat merangsang aktivitas-aktivitas pribadi peserta didik yang menggunakannya. Namun kenyataan yang ada di lapangan buku teks pelajaran belum membimbing peserta didik dalam meransang aktivitas peserta didik dalam bentuk penelitian atau riset. Pembelajaran yang mampu membimbing peserta didik dalam riset adalah model *research based learning*. Penelitian ini bertujuan untuk mengembangkan buku teks pelajaran berbasis model *research based learning* dan pendekatan saintifik yang valid, praktis, dan efektif dalam meningkatkan kompetensi peserta didik. Jenis penelitian adalah *research and development* menggunakan model pengembangan Plomp yang terdiri dari *preliminary research* (analisis pendahuluan), *prototyping research* (tahap perancangan), *assessment phase* (tahap penilaian). Instrumen penelitian terdiri dari lembar analisis berupa angket, lembar validasi, lembar praktikalitas, tes essay, lembar observasi sikap, dan lembar observasi keterampilan. Teknik analisis data menggunakan deskriptif persentase. Hasil penelitian menunjukkan bahwa buku teks pelajaran fisika SMA berbasis model research based learning berkategori valid, sangat praktis menurut guru, praktis menurut peserta didik, dan efektif dalam meningkatkan kompetensi peserta didik meliputi kompetensi sikap, kompetensi pengetahuan, dan kompetensi keterampilan.

Kata kunci : buku teks pelajaran, model *research based learning*, pendekatan saintifik