

ABSTRACT

The Development of X Grade High School Physics Module with Research Based Learning Integrated Character Values in Circular Motion and Newton's Law

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The character education in schools implemented in an integrated way through learning process. For the best implementation, learning devices that have character values is necessary. But in fact until today the learning material was not ideal, especially in the form of teaching textbook that certain character values. Module is one kind a form of self-learning materials that fully packed systematically which contains a set of leraning experiences. It was planned and designed to help the students to master the specific learning objectives. The module development was based on a concept deepening and elaboration. Research based learning model was one kind of learning that enable the students. This research aims to develop the research based learning of physics module that integrated with character values that valid, practical, and effective in improving the student's competences.

The type of this research was research and development using Plomp model consisting of preliminary research, prototyping phase, and assessment phase. The instrument of this research consisted of analysis, validation, and practicalities sheets, essay tests, attitudes and skills observation sheets. Data were analyzed using descriptive percentages.

The results showed that the module based on research based learning intregated with character values categorized valid (0.76), very practical according to the teachers (80.36%), very practical according to the students (88.06%), and effective in enhaning the student's competence including attitude (99,99%), knowledge (90.32%) and skill competence (87,09%).

ABSTRAK

Pengembangan Modul Fisika Kelas X SMA Berbasis Model *Research Based Learning* Terintegrasi Nilai-Nilai Karakter pada Materi Gerak Melingkar dan Hukum Newton

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Implementasi pendidikan karakter di sekolah dilaksanakan secara terintegrasi melalui proses pembelajaran. Agar pelaksanaannya lebih optimal, harus ditunjang oleh perangkat pembelajaran bermuatan nilai-nilai karakter. Namun kenyataannya di sekolah perangkat pembelajaran yang ada belum optimal, terutama dalam bentuk bahan ajar yang bermuatan nilai-nilai karakter. Modul merupakan salah satu bentuk bahan pembelajaran mandiri yang dikemas secara utuh dan sistematis, didalamnya memuat seperangkat pengalaman belajar yang terencana dan dirancang untuk membantu peserta didik menguasai tujuan pembelajaran yang spesifik. Pengembangan modul didasarkan pada pendalaman dan perluasan materi. Pembelajaran yang dapat mengaktifkan peserta didik salah satunya adalah model *research based learning*. Penelitian ini bertujuan untuk mengembangkan modul Fisika berbasis *research based learning* terintegrasi nilai-nilai karakter yang valid dan praktis serta efektif dalam meningkatkan kompetensi peserta didik.

Jenis penelitian adalah *research and development* menggunakan model Plomp yang terdiri dari *preliminary research* (analisis pendahuluan), *prototyping phase* (tahap perancangan), dan *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 modul berbasis model *research based learning* terintegrasi nilai-nilai karakter berkategori valid (0,76), sangat praktis menurut guru (80,36%), sangat praktis menurut peserta didik (88,06%), dan efektif dalam meningkatkan kompetensi peserta didik meliputi kompetensi sikap (99,99%), kompetensi pengetahuan (90,32%) dan kompetensi keterampilan (87,09%).