

Development of Problem Based Learning-Based Electronic Module Using Flip Pdf Professional in Class XI High School Elasticity Materials

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ABSTRACT

This study aims to produce a learning module in the form of Electronic using a valid Flip Pdf Professional. This research was conducted in the even semester of 2021/2022. The subjects of this study were students of class XI MIPA 5 at SMA Negeri 13 Palembang. This development uses the Research and Development (R&D) method with Borg & Gall models and stages. Data collection techniques used in the form of interview instruments and questionnaires. The instrument used in data collection is a questionnaire given to material experts, media experts, and linguists aimed at testing the validity of the learning modules that have been made. The result of this research is that a learning module has been developed that applies the process and stages of problem solving that are suitable for use in learning and have been validated by the validators. The results of the validation of material experts are 85%, media experts are 90%, and linguists are 88%. The average results from material experts, media experts, and linguists are 88% with a very valid category. The results of the teacher's response were 88% with a very valid category and the results of the student response test of 84% with the category of getting a positive response from students.

Keywords: *Problem Based Learning, Flip Pdf Professional, Development, Elasticity*

Pengembangan Modul Elektronik Berbasis *Prolem Based Learning* Menggunakan Flip Pdf Professional Pada Materi Elastisitas SMA Kelas XI

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ABSTRAK

Penelitian ini bertujuan untuk menghasilkan modul pembelajaran berbentuk Elektronik menggunakan Flip Pdf Professional yang valid. Penelitian ini dilaksanakan pada semester genap 2021/2022. Subjek penelitian ini yaitu peserta didik kelas XI MIPA 5 di SMA Negeri 13 Palembang. Pengembangan ini menggunakan metode *Research and Development* (R&D) dengan model dan tahapan Borg & Gall. Teknik pengumpulan data yang digunakan berupa instrumen wawancara dan angket. Instrumen yang digunakan pada pengumpulan data yaitu angket yang diberikan kepada ahli materi, ahli media, dan ahli bahasa bertujuan untuk menguji kevalidan dari modul pembelajaran yang telah dibuat. Hasil penelitian ini yaitu telah dikembangkan modul pembelajaran yang menerapkan proses dan tahapan pemecahan masalah yang layak digunakan dalam pembelajaran dan telah divalidasi oleh para validator. Hasil validasi ahli materi sebesar 85% serta ahli media sebesar 90%, dan ahli bahasa sebesar 88%. Adapun hasil rata-rata dari ahli materi, ahli media, dan ahli bahasa sebesar 88% dengan kategori sangat valid. Hasil respon guru sebesar 88% dengan kategori sangat valid serta hasil uji respon peserta didik sebesar 84% dengan kategori mendapatkan respon positif dari peserta didik.

Kata Kunci: *Problem Based Learning*, Flip Pdf Professional, Pengembangan, Elastisitas