

ABSTRAK

Yosafat Sinaga : Pengembangan Modul Praktikum Terhadap Hasil Belajar Dasar-Dasar Teknik Ketenagalistrikan Kelas X SMK Negeri 1 Percut Sei Tuan Medan.

Penelitian ini dilatar belakangi oleh ketiadaan modul praktikum pada elemen Teori Dasar Listrik di kelas X TJTL SMK Negeri 1 Percut Sei Tuan, sehingga pembelajaran masih terbatas pada modul ajar dan jobsheet tanpa dukungan teori yang sistematis. Adapun tujuan dari penelitian ini adalah mengetahui kelayakan dan efektivitas modul praktikum yang dikembangkan. Kajian teori mencakup konsep hasil belajar, modul praktikum, serta model pengembangan ADDIE yang menjadi landasan dalam merancang produk. Penelitian ini menggunakan metode Research and Development dengan tahapan ADDIE, melibatkan validasi ahli materi, ahli media, uji akseptibilitas pengguna, serta uji efektivitas melalui pre-test dan post-test. Hasil penelitian menunjukkan bahwa modul praktikum memperoleh validasi ahli materi sebesar 97%, serta validasi ahli media sebesar 96,5% dan 97,5%, yang seluruhnya berada pada kategori “Sangat Layak”. Akseptibilitas pengguna oleh siswa mencapai 94%, juga dalam kategori “Sangat Layak”. Hasil belajar siswa meningkat dari rata-rata 56,3 (pre-test) menjadi 90,33 (post-test), dengan nilai rata-rata gabungan kognitif-psikomotorik mencapai 92 melampaui KKM (80). Uji efektivitas menunjukkan skor N-Gain sebesar 0,9130 atau 91,3%, yang termasuk kategori “sangat efektif”. Penelitian ini menyimpulkan bahwa modul praktikum yang dikembangkan layak, praktis, dan efektif untuk meningkatkan pemahaman serta keterampilan siswa pada materi Teori Dasar Listrik.

Kata Kunci : Modul Praktikum, Teori Dasar Listrik, Hasil Belajar, ADDIE, N-Gain.

ABSTRACT

Yosafat Sinaga: *Developing a Practical Module for Learning Outcomes of Electrical Engineering Basics in Grade X of SMK Negeri 1 Percut Sei Tuan Medan.*

This research was motivated by the absence of a practical module for the Basic Electrical Theory element in Grade X of TJTL SMK Negeri 1 Percut Sei Tuan, resulting in learning being limited to teaching modules and worksheets without systematic theoretical support. The theoretical study encompasses the concept of learning outcomes, practical modules, and the ADDIE development model, which serves as the foundation for product design. This research used the Research and Development method with ADDIE stages, involving validation by material experts and media experts, user acceptability testing, and effectiveness testing through pre- and post-tests. The results showed that the practical module achieved 97% validation from material experts, 96.5% validation from media experts, and 97.5% validation from media experts, respectively, all of which were categorized as "Very Appropriate." Student user acceptability reached 94%, also categorized as "Very Appropriate." Student learning outcomes improved from an average of 56.3 (pre-test) to 90.33 (post-test), with an average combined cognitive-psychomotor score reaching 92, exceeding the Minimum Competency (KKM) of 80. The effectiveness test showed an N-Gain score of 0.9130 or 91.3%, which is categorized as "very effective." This study concludes that the developed practical module is feasible, practical, and effective in improving students' understanding and skills in Basic Electrical Theory.

Keywords: *Practical Module, Basic Electrical Theory, Learning Outcomes, ADDIE, N-Gain*

