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Perancangan Modul Self Learning Berbasis Google Sites pada Materi Rangkaian Listrik Dasar

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Kata Kunci: Modul self-learning, Google Sites, Rangkaian Listrik Dasar, ADDIE, Validasi Ahli

Abstrak :

Rangkaian Listrik Dasar merupakan materi fundamental yang harus dikuasai mahasiswa Program Studi Pendidikan Teknik Elektro karena menjadi landasan bagi pemahaman mata kuliah lanjutan. Namun, dalam praktik pembelajaran masih ditemukan permasalahan, di mana sebagian mahasiswa mengalami kesulitan memahami konsep secara mendalam dan cenderung bergantung pada penjelasan dosen. Penelitian ini bertujuan untuk merancang modul self-learning berbasis Google Sites pada materi Rangkaian Listrik Dasar agar mahasiswa dapat belajar secara mandiri, fleksibel, dan terarah. Pengembangan modul menggunakan model ADDIE yaitu Analisis, Desain, Development, Implementation dan Evaluation tetapi dibatasi hanya sampai tahap Development, meliputi analisis kebutuhan, perancangan struktur modul, serta pengembangan produk di platform Google Sites. Validasi dilakukan oleh dua orang ahli materi dan dua orang ahli media untuk menilai kelayakan isi dan kualitas media. Hasil validasi menunjukkan bahwa modul memperoleh kategori Sangat Layak dengan rata-rata persentase 95% dari ahli materi dan 91,5% dari ahli media. Modul yang dikembangkan dilengkapi dengan materi sistematis, video pembelajaran, simulasi PhET, contoh soal, soal mandiri, glosarium, dan referensi. Dengan demikian, modul self-learning berbasis Google Sites ini dinyatakan layak digunakan sebagai bahan ajar mandiri untuk mendukung pemahaman mahasiswa terhadap materi Rangkaian Listrik Dasar.

Keywords: Self-learning module, Google Sites, Basic

Abstract :

Electrical Circuits, ADDIE, Expert validation

Basic Electrical Circuits are fundamental topics that must be mastered by students of the Electrical Engineering Education Study Program, as they provide the foundation for understanding advanced courses. However, in the learning process, some students still experience difficulties in developing an in-depth understanding of the concepts and tend to rely heavily on lecturers' explanations. This study aims to design a Google Sites-based self-learning module on Basic Electrical Circuits to enable students to learn independently, flexibly, and systematically. The module was developed using the ADDIE model, which was limited to the Development stage and included needs analysis, module structure design, and product development using the Google Sites platform. Validation was conducted by two material experts and two media experts to assess the content feasibility and media quality. The validation results showed that the module was categorized as Highly Feasible, with an average percentage score of 95% from the material experts and 91.5% from the media experts. The developed module includes systematic learning materials, instructional videos, PhET simulations, worked examples, self-assessment questions, a glossary, and references. Therefore, the Google Sites-based self-learning module is considered feasible for use as an independent learning resource to support students' understanding of Basic Electrical Circuits.