

ABSTRAK

Ayu Novida: ***Pengembangan e-modul untuk Praktikum Dasar-Dasar Teknik Jaringan Komputer dan Telekomunikasi di kelas X TKJ SMKS PAB 1 Helvetia***. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2024

Tujuan penelitian ini ialah untuk mengetahui Kelayakan dan Efektivitas Pengembangan E-Modul Praktikum Dasar-Dasar Teknik Jaringan Komputer dan Telekomunikasi di kelas X TKJ SMKS PAB 1 Helvetia semester ganjil 2023/2023. Metode penelitian *Research and Development (R&D)* dengan menggunakan model pengembangan ADDIE. Hasil validasi menunjukkan bahwa pembelajaran praktikum dengan e-modul praktikum termasuk dalam kategori “Sangat Layak” untuk digunakan pada kegiatan pembelajaran praktikum. Hasil penelitian menunjukkan bahwa e-modul praktikum ini sangat layak untuk diterapkan dan digunakan dalam pembelajaran praktikum. Hasil Analisis Uji *N-Gain* menunjukan hasil Pada kelas kontrol dengan nilai posttest memperoleh nilai *n-gain score* sebesar 0.61 atau 61% termasuk dalam kriteria sedang dan dikatakan cukup efektif, dan kelas ekperimen memperoleh nilai rata-rata *n-gain score* sebesar 0.76 atau 76% termasuk dalam kategori tinggi dan dikatakan efektif, maka ditarik kesimpulan bahwa Pembelajaran menggunakan e-Modul Praktikum Dasar-Dasar Teknik Jaringan Komputer dan Telekomunikasi efektif terhadap terhadap hasil belajar Praktikum siswa kelas X TKJ SMKS PAB 1 Helvetia.

Kata Kunci: kelayakan, Efektivitas E-Modul Praktikum, Dasar-Dasar Teknik Jaringan Komputer dan Telekomunikasi

ABSTRACT

Ayu Novida: Development of e-modules for Basic Practicum of Computer Network Engineering and Telecommunications in class X TKJ SMKS PAB 1 Helvetia. Thesis. Faculty of Engineering, State University of Medan, 2024

The purpose of this study is to determine the Feasibility and Effectiveness of the development of E-Module Practicum Basics of Computer Network and Telecommunications Engineering in class X TKJ SMKS PAB 1 Helvetia odd semester 2023/2023. Research and Development (R&D) research method using the ADDIE development model. The validation results show that practicum learning with practicum e-modules is included in the "Very Feasible" category to be used in practicum learning activities. The results showed that this practicum e-module is very feasible to be applied and used in practicum learning. The results of the N-Gain Test Analysis showed results In the control class with a posttest value obtained an n-gain score of 0.61 or 61% included in the medium criteria and was said to be quite effective, and the experimental class obtained an average n-gain score of 0.76 or 76% included in the high category and was said to be effective, it was concluded that Learning using the e-Module Practicum Basics of Computer Network Engineering and Telecommunications was effective against on the learning outcomes of Practicum students of grade X TKJ SMKS PAB 1 Helvetia.

Keywords: feasibility, Effectiveness of E-Module Practicum, Basics of Computer Network Engineering and Telecommunications