ABSTRACT

Futri Rahmadani, 2023, Designing an Android-Based Learning Module Application in the Subject of Network System Administration for XI TKJ Students of SMK Kartika 1-2 Padang in the 2022/2023 Academic Year.
This study aims to determine the Validity, Practicality and Effectiveness of Designing an Android-Based Learning Module Application in the Network Systems Administration Subject for XI TKJ Students at SMK Kartika 1-2 Padang in the 2022/2023 Academic Year. This research uses research and development methods (Research & Development). The research subjects were 43 students of SMK Kartika 1-2 Padang. This research method uses analysis (ADDIE), with the design and development steps as follows. (1) Analyze, (2) Design, (3) development, (4) Implementation, and (5) Evaluate. The results of the validity test by the experts as a whole the validator test assessment of Android-Based Learning Media in the subject of Network System Administration Class XI TKJ SMK Kartika 1-2 Padang is 80.27%, so that the validity level can be interpreted as valid to use. The results of the practicality test assessment as a whole the practicality assessment of the Android-Based Learning Module in the class XI TKJ Kartika 1-2 Padang Network System Administration subject is 86.44%, so that the level of practicality can be interpreted to be very practical to use. The results of the overall effectiveness test assessment of the effectiveness of the Android-Based Learning Module in the subject of Class XI Network System Administration TKJ SMK Kartika 1-2 Padang amounted to 94.62% so that the level of effectiveness can be interpreted to be very well used. In conclusion, based on the assessment along with expert input as well as the results of field trials the Android-Based Learning Module as a learning medium has been tested for feasibility, superiority, and can be used in the learning process in the Network Systems Administration subject class XI TKJ SMK Kartika 1-2 Padang.

Keywords: *Android, Learning Module, Network System Administration.*

ABSTRAK

Futri Rahmadani, 2023, Perancangan Aplikasi Modul Pembelajaran Berbasis Android Pada Mata Pelajaran Administrasi Sistem jaringan untuk Siswa XI TKJ SMK Kartika 1-2 Padang Tahun Ajaran 2022/2023.

Penelitian ini bertujuan untuk mengetahui Validitas, Praktikalitas dan Efektifitas Perancangan Aplikasi Modul Pembelajaran Berbasis Android Pada Mata Pelajaran Administrasi Sistem jaringan untuk Siswa XI TKJ SMK Kartika 1-2 Padang Tahun Ajaran 2022/2023. Penelitian ini menggunakan metode penelitian pengembangan (*Research & Development*). Sabjek penelitian berjumlah 43 orang siswa SMK Kartika 1-2 Padang. Metode penelitian ini menggunakan analisis (*ADDIE*), dengan *desain* dan langkah-langkah pengembangannya adalah sebagai berikut. *(1) Analyze, (2) Design, (3) development, (4) Implementasi, dan(5) Evaluate.* Hasil uji validitas oleh para ahli secara keseluruhan penilaian uji validator terhadap Media Pembelajaran Berbasis *Android* pada mata pelajaran Administrasi Sistem jaringanl Kelas XI TKJ SMK Kartika 1-2 Padang sebesar 80,27%, sehingga tingkat validitas dapat di interprestasikan valid digunakan. Hasil penilaian uji praktikalitas secara keseluruhan penilaian praktikalitas terhadap Modul Pembelajaran Berbasis *Android* pada mata pelajaran Administrasi Sistem Jaringan Kelas XI TKJ Kartika 1-2 Padang sebesar 86,44%, sehingga tingkat praktikalitasnya dapat di interprestasikan sangat praktis digunakan. Hasil penilaian uji efektifitas secara keseluruhan penilaian efektifitas terhadap Modul Pembelajaran Berbasis *Android* pada mata pelajaran Administrasi Sistem Jaringan Kelas XI TKJ SMK Kartika 1-2 Padang sebesar 94,62% sehingga tingkat efektifitasnya dapat di interpretasikan sangat baik digunakan. Kesimpulannya, berdasarkan penilaian beserta masukan ahli serta hasil dari uji coba lapangan Modul Pembelajaran Berbasis *Android* sebagai media pembelajaran sudah teruji kelayakan, keunggulan, dan dapat digunakan pada proses pembelajaran pada mata pelajaran Administrasi Sistem Jaringan kelas XI TKJ SMK Kartika 1-2 Padang.

Kata kunci : *Android*, Modul Pembelajaran, Administrasi Sistem Jaringan.