

## ABSTRACT

Novita Pramida Sari, 2022, **Development of Android-Based Learning Media in WAN Broad-Based Network Technology Subjects for Class XI TKJ at SMKN 8 Padang Academic Year 2022/2023, Bachelor of Informatics Engineering Education, Faculty of Teaching Science and Education, University of Putra Indonesia.**

This study aims to determine the Validity, Practicality and Effectiveness of Developing Android-Based Learning Media in WAN Broad-Based Network Technology Subjects for Class XI TKJ at SMKN 8 Padang in Academic Year 2022/2023. This study uses research development methods (research & development). The research subjects totaled 36 people. The research model used is the development research model (ADDIE model), with the design 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 Class XI Class XI WAN-Based Network Technology Subject at SMKN 8 Padang is 87.11%, so the validity level can be interpreted as very valid to use. The results of the practicality test assessment as a whole the practicality assessment of Android-Based Learning Media in Class XI WAN Broad-Based Network Technology Subject at SMKN 8 Padang is 96.12%, 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 Android-Based Learning Media in Class XI WAN Broad-Based Network Technology Subjects at SMKN 8 Padang amounted to 89.22% so that the level of effectiveness can be interpreted to be used very effectively. In conclusion, based on the assessment along with expert input as well as the results of field trials Android-Based Learning Media as a learning medium has been tested for feasibility, superiority, and can be used in the learning process in the Class XI WAN Broad-Based Network Technology subject at SMKN 8 Padang.

**Keyword** : Android, Learning Media, WAN Area-Based Network Engineering

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Novita Pramida Sari, 2022, **Pengembangan Media Pembelajaran Berbasis *Android* Pada Mata Pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI TKJ di SMKN 8 Padang Tahun Ajaran 2022/2023**, Sarjana Pendidikan Teknik Informatika Fakultas Keguruan Ilmu Dan Pendidikan Universitas Putra Indonesia.

Penelitian ini bertujuan untuk mengetahui validitas, praktikalitas dan efektivitas pengembangan media pembelajaran berbasis *android* pada mata pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI TKJ di SMKN 8 Padang Tahun Ajaran 2022/2023. Penelitian ini menggunakan metode pengembangan penelitian (*research & development*). Subjek penelitian berjumlah 36 orang. Model penelitian yang digunakan adalah model penelitian pengembangan (ADDIE model), dengan desain langkah-langkah pengembangannya adalah sebagai berikut. (1)*Analyze*, (2)*design*, (3) *development*, (4) *Implementation* dan (5) *Evaluate*.

Hasil uji validitas oleh para ahli secara keseluruhan penilaian uji validator terhadap media pembelajaran berbasis *android* pada mata pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI di SMKN 8 Padang sebesar 87,11%, sehingga tingkat validitas dapat diinterpretasikan sangat valid digunakan. Hasil penilaian uji praktikalitas secara keseluruhan penilaian praktikalitas terhadap media pembelajaran berbasis *android* pada mata pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI di SMKN 8 Padang 96,12%, sehingga tingkat praktikalitasnya dapat diinterpretasikan sangat praktis digunakan. Hasil penilaian uji efektivitas secara keseluruhan penilaian efektivitas media pembelajaran berbasis *android* pada mata pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI di SMKN 8 Padang sebesar 89,22% sehingga tingkat efektivitasnya dapat diinterpretasikan sangat efektif digunakan. Kesimpulannya, berdasarkan penilaian beserta masukan ahli serta hasil dari uji coba lapangan media pembelajaran berbasis *android* sebagai media pembelajaran sudah teruji kelayakan, keunggulan, dan dapat digunakan pada proses pembelajaran pada mata pelajaran Teknologi Jaringan Berbasis Luas WAN Kelas XI di SMKN 8 Padang.

**Kata Kunci :** *Android*, Media Pembelajaran, Teknik Jaringan Berbasis Luas WAN