

## ABSTRAK

Penelitian ini memiliki tujuan 1) mengetahui pengembangan modul pembelajaran berbasis *android* dengan model pembelajaran *discovery learning* dilengkapi video pembelajaran pada materi limit fungsi aljabar, 2) menghasilkan modul pembelajaran berbasis *android* dengan model pembelajaran *discovery learning* dilengkapi video pembelajaran pada materi limit fungsi aljabar yang memenuhi kriteria valid dan praktis. penelitian menggunakan model pengembangan ADDIE (*Analisis, Design, Development, Implementation, Evaluation*), namun pada penelitian ini hanya sampai tahap *Design* dikarenakan tujuan penelitian ini hanya berfokus sampai menghasilkan produk yang valid dan praktis. Teknik pengumpulan data yang digunakan berupa wawancara dan kuesioner. Instrumen yang digunakan yaitu Instrumen prasurvey, instrumen validitas dan instrumen kepraktisan. Teknik analisis data yang digunakan mencakup, analisis data prasurvey, analisis data validasi dan kepraktisan produk. Pengembangan modul pembelajaran berbasis *android* dengan model pembelajaran *discovery learning* dilengkapi video pembelajaran pada materi limit fungsi aljabar mendapatkan hasil, yaitu: 1) tahap *analisis* diketahui kebutuhan peserta didik berupa modul pembelajaran berbasis *android* dengan model pembelajaran *discovery learning*, tahap *design* memperoleh rancangan produk, tahap *development* memperoleh hasil berupa modul pembelajaran berbasis *android* telah dinyatakan valid dan praktis melalui uji validasi dan kepraktisan modul, tahap *Evaluation* memperoleh sebuah perbaikan modul disetiap tahapan. 2) modul dinyatakan sangat valid dengan presentase 80,53% oleh ahli materi dan sangat valid dengan presentase 86,92% oleh ahli media, sehingga didapat rata-rata kevalidan kedua ahli dengan presentase 83,73%, dan modul dinyatakan praktis oleh peserta didik dengan presentase 77,98%.

**Kata kunci** : *android*; *discovery learning*; modul; pengembangan

## ABSTRACT

*This study aimed at 1) knowing the development of an android-based learning module with discovery learning learning models equipped with learning videos on the limit algebraic function material, 2) producing an android-based learning module with discovery learning learning models equipped with learning videos on algebraic function limit materials that meet valid criteria. and practical. This study uses the ADDIE development model (Analysis, Design, Development, Implementation, Evaluation), but in this study it only reached the Design stage because the purpose of this study was only to focus on producing valid and practical products. Data collection techniques were in the form of interviews and questionnaires. The instruments used are pre-survey instruments, validity and practicality. The data analysis technique used includes data analysis of presurvey, validation and product practicality. The development of android-based learning modules with discovery learning models equipped with learning videos on the material limit of algebraic functions get results, namely: 1) the analysis stage was known to the needs of students in the form of android-based learning modules with discovery learning models, the design stage obtained product designs, the development stage obtained results in the form of an android-based learning module that had been declared valid and practical through a validation test and the practicality of the module, the Evaluation stage obtained a module improvement at each stage. 2) the module was declared very valid with a percentage of 80.53% by material experts and very valid with a percentage of 86.92% by media experts, so that the average validity of the two experts was 83.73%, and the module was declared practical by students with a percentage of 77.98%.*

**Keywords**: *android*; *discovery learning*; module; development