

ABSTRAK

Siti Nurlina Ripani. 2022. **PENGEMBANGAN E-MODUL BERBASIS ANDROID BERBANTUAN LECTORA INSPIRE PADA MATERI HUKUM NEWTON**

E-Modul berbasis android berbantuan *Lectora Inspire* pada materi Hukum Newton sudah dikembangkan. E-Modul dikemas sedemikian rupa untuk membantu dalam proses pembelajaran fisika. Tujuan penelitian ini adalah untuk mengetahui tingkat kevalidan dan kepraktisan E-Modul berbasis android berbantuan *Lectora Inspire* pada materi Hukum Newton. Jenis penelitian adalah penelitian *Research and Development* (R & D) dengan menggunakan model pengembangan *Analysis, Design, Development, Implementation, Evaluation* (ADDIE). Teknik pengumpulan data menggunakan wawancara kepada satu guru fisika SMA Negeri 5 Tasikmalaya, angket uji validitas kepada tiga ahli, angket kepraktisan kepada 34 siswa SMA Negeri 5 Tasikmalaya dan dua guru fisika SMA Negeri 5 Tasikmalaya. Data dianalisis dengan cara kualitatif dan kuantitatif. Data kualitatif berupa hasil wawancara serta saran dan komentar dari validator, siswa, dan guru sedangkan data kuantitatif berupa hasil penilaian validator, guru, dan siswa menggunakan *skala likert* pada angket kevalidan dan kepraktisan e-modul. Hasil penelitian menunjukkan bahwa rata-rata persentase validasi oleh ahli materi sebesar 89% dengan kriteria sangat valid, persentase validasi oleh ahli media dan digital sebesar 92% dengan kriteria sangat valid, dan persentase validasi oleh ahli bahasa sebesar 86% dengan kriteria sangat valid. Hasil uji kepraktisan siswa mendapatkan hasil persentase 82% dengan kategori sangat praktis sedangkan hasil uji kepraktisan guru mendapatkan hasil persentase 88% dengan kategori sangat praktis. Hasil uji validasi dan kepraktisan tersebut diperkuat dengan hasil wawancara kepada guru dan angket siswa bahwa e-modul mudah digunakan, mudah dipahami, dan menarik bagi pengguna. Oleh karena itu, e-modul berbasis android berbantuan *Lectora Inspire* pada materi Hukum Newton yang dikembangkan memenuhi kriteria sangat valid dan praktis untuk digunakan dalam proses pembelajaran.

Kata kunci: Aplikasi android, E-modul, *Lectora Inspire*, hukum newton

ABSTRACT

Siti Nurlina Ripani. 2022. **DEVELOPMENT OF ANDROID-BASED E-MODULE ASSISTED BY LECTORA INSPIRE ON NEWTON LAW**

An android-based e-module assisted by Lectora Inspire Newton's Law has been developed. E-Modules are packaged in such a way as to assist in the process of learning physics. The purpose of this study was to find out the level of validity and practicality of the Android-based E-Module assisted by Lectora Inspire on Newton's Law material. This type of research is Research and Development (R & D) research using the analysis, design, development, implementation, evaluation (ADDIE) development model. The data collection technique uses interviews with one physics teachers SMA Negeri 5 Tasikmalaya, validity test questionnaires to three experts, and practicality questionnaires to 34 students and two physics teachers SMA Negeri 5 Tasikmalaya. Data is analyzed in qualitative and quantitative ways. Qualitative data in the form of interview results and suggestions and comments from validators, students, and teachers while quantitative data in the form of validator, teacher, and student assessment results use the likert scale on the e-module's validity and practicality questionnaire. The results showed that the average percentage of validation by material experts was 89% with very valid criteria, the percentage of validation by media and digital experts was 92% with very valid criteria, and the percentage of validation by linguists was 86% with very valid criteria. The results of the student practicality test get a percentage result of 82% with a very practical category while the results of the teacher's practicality test get a percentage result of 88% with the practical sagat category. The results of the validation and practicality test are reinforced by the results of interviews to teachers and student questionnaires that e-modules are easy to use, easy to understand, and attractive to users. Therefore, the Lectora Inspire-assisted android-based e-module on newton law developed meets very valid and practical criteria for use in the learning process.

Keywords: Android app, E-module, Lectora Inspire, newton law