

ABSTRAK

Bima Nainggolan, NIM 4193321021 (2023). Pengembangan Media pembelajaran fisika aplikasi SAC (*Smart Application Creator*) pada materi Gelombang Mekanik

Penelitian ini dilakukan karena banyak guru yang tidak menggunakan media pembelajaran dalam mengajar, guru kurang memahami cara kerja media pembelajaran, rendahnya beberapa pemahaman guru terhadap media pembelajaran, dan rendahnya hasil belajar siswa. Penelitian ini bertujuan untuk mengetahui kelayakan, kepraktisan dan keefektifan Media pembelajaran SAC (*Smart Application Creator*) pada materi gelombang mekanik yang sudah dikembangkan peneliti. Jenis penelitian adalah *Research and Development (RnD)* bermodel ADDIE oleh Dick dan Carry. ADDIE terdiri *analysis, design, development, implementation, dan evaluation* serta Subjek dalam penelitian ini adalah ahli Media, materi, dan objek adalah peserta didik kelas XI MIPA 6 SMA Negeri 17 Medan yang berjumlah 34 orang. Instrumen yang digunakan ialah angket uji kelayakan Media, materi, dan test. Hasil penelitian menunjukkan media yang dikembangkan memperoleh nilai dari ahli Media (98,80), ahli materi (91,66%) dengan kategori layak. Pada uji praktis Media memperoleh skor 81,49% dengan kategori praktis. Pada uji keefektifan media pembelajaran SAC (*Smart Application Creator*) memperoleh skor n-gain 0,73 dengan kategori efektif.

Kata Kunci : Media Pembelajaran, SAC (*Smart Application Creator*), hasil belajar



ABSTRACT

Bima Nainggolan, NIM 4193321021 (2023). Development of physics learning media for SAC (Smart Application Creator) applications on Mechanical Wave material

This research was conducted because many teachers do not use learning media in teaching, teachers do not understand how learning media works, low teacher understanding of learning media, and low student learning outcomes. Where this study aims to determine the feasibility, practicality and effectiveness of SAC (Smart Application Creator) learning media on mechanical wave material that has been developed by researchers. The type of research is Research and Development (RnD) modeled ADDIE by Dick and Carry. ADDIE stand for analysis, design, development, implementation, evaluation. The subjects in this study are experts in Media, materials, and objects are students of grade XI MIPA 6 SMA Negeri 17 Medan totaling 34 people. The instruments used are media feasibility test questionnaires, materials, and tests. The results showed that the developed media obtained scores from Media experts (98.80), material experts (91.66%) in the feasible category. In the practical test, Media obtained a score of 81.49% in the valid category. And the effectiveness of SAC obtained N-gain value of 0.73 high category. So it can be concluded that the SAC Media that has been developed is feasible, practical and also effective for improving student learning outcomes.

Keywords : Learning Media, SAC (Smart Application Creator), learning outcomes





THE
Character Building
UNIVERSITY