

ABSTRAK

MEI ZUHRI ERNIZA : Pengembangan Media Pembelajaran Berbasis ICT Melalui Animaker Untuk Meningkatkan Pemahaman Konsep Siswa. **Program Studi Pendidikan Fisika FKIP Universitas Malikussaleh, 2024.**

Pendidikan saat ini berada di abad 21 atau dikenal dengan masa pengetahuan (*knowledge age*). Pendidik dan calon pendidik harus mampu beradaptasi dengan IPTEK (Ilmu Pengetahuan dan teknologi) dan terampil menggunakan teknologi terutama teknologi informasi dan komunikasi dalam proses pembelajaran. Media pembelajaran berbasis ICT (*Information and Communications of Technology*) merupakan perangkat pembelajaran yang sesuai dengan IPTEK. Media pembelajaran berbasis ICT adalah media pembelajaran berbasis komunikasi dan teknologi yang melibatkan teks, gambar, suara, dan video. Proses pembelajaran di MAS Al- Wasliyah Kisaran belum menggunakan perangkat pembelajaran berbasis *information and communication of technology*. Penelitian ini bertujuan untuk mengetahui kelayakan, respon, serta peningkatan pemahaman konsep siswa.

Penelitian ini merupakan jenis penelitian *Research And Development* (R&D) dengan model Borg and Gall dengan delapan tahapan yang disesuaikan dengan kebutuhan peneliti. Desain uji coba pada penelitian ini adalah *one-group pretest-posttest design*. Teknik pengumpulan data dalam penelitian berupa observasi dan wawancara. Instrumen penelitian berupa angket kelayakan dan tes. Subjek penelitian yaitu siswa kelas XI IPA yang berjumlah 28 orang dan penelitian ini berlokasi di MAS Al-Washliyah Kisaran. Teknik analisis data menggunakan analisis data kualitatif dan kuantitatif.

Hasil yang diperoleh adalah: (1) Hasil validasi oleh ahli materi dengan kategori “sangat layak”, hasil validasi oleh ahli bahasa termasuk dalam kategori “sangat layak”, serta hasil validasi oleh media dengan kategori “sangat layak”, (2) Hasil respon guru dengan kategori “sangat baik” dan hasil respon peserta didik dengan kategori “sangat baik”, (3) Uji n-gain yang dilakukan pada siswa kelas XI IPA diperoleh hasil 0,54 masuk dalam kategori “sedang”. Hasil penelitian ini menunjukkan bahwa pengembangan media pembelajaran berbasis *information and communication of technology* pada materi usaha dan energi yang dikembangkan layak digunakan.

Kata Kunci : Media Pembelajaran, ICT, *Information And Of Technology*, Animaker, Usaha dan Energi, Pemahaman Konsep.

ABSTRACT

MEI ZUHRI ERNIZA: Development of ICT-Based Learning Media Through Animaker to Improve Students' Understanding of Concepts. Physics Education Study Program, FKIP, Malikussaleh University, 2024.

Education is currently in the 21st century or known as the knowledge age. Educators and prospective educators must be able to adapt to science and technology (science and technology) and be skilled in using technology, especially information and communication technology in the learning process. ICT (Information and Communications af Technology) based learning media is a learning tool that is in accordance with science and technology. ICT-based learning media is communication and technology-based learning media that involves text, images, sound and video. The learning process at MAS Al-Wasliyah Kisaran does not yet use learning tools based on information and communication of technology. This research aims to determine the feasibility, response, and increase students' understanding of concepts.

This research is a type of Research and Development (R&D) research using the Borg and Gall model with eight stages adapted to the needs of researchers. The trial design in this research was a one-group pretest-posttest design. Data collection techniques in research include observation and interviews. The research instruments are in the form of feasibility questionnaires and tests. The research subjects were 28 class XI Science students and this research was located at MAS Al-Washliyah Kisaran. Data analysis techniques use qualitative and quantitative data analysis.

The results obtained are: (1) Validation results by material experts in the "very feasible" category, validation results by linguist experts in the "very feasible" category, as well as validation results by the media in the "very feasible" category, (2) Response results teachers in the "very good" category and student response results in the "very good" category, (3) The n-gain test carried out on class The results of this research indicate that the development of learning media based on information and communication of technology on the business and energy material developed is suitable for use.

Keywords: Learning Media, ICT, Information and Technology, Animation, Work and Energy, Concept Understanding