

ABSTRAK

PENGARUH MEDIA VIRTUAL BERBASIS KEARIFAN LOKAL BERBANTUAN *SMART APPLICATION CREATOR* PADA MATERI OPTIK TERHADAP KEMAMPUAN BERPIKIR KRITIS SISWA SMA

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Penelitian ini bertujuan untuk mengetahui pengaruh media *virtual* berbasis kearifan lokal berbantuan *smart application creator* pada materi optik terhadap kemampuan berpikir kritis siswa SMA. Metode dalam penelitian ini yaitu *quasi experiment* dengan menggunakan desain *nonequivalent control group design* dimana penelitian teknik pengambilan sampel menggunakan *purposive sampling*, sampel penelitian yang dipilih yaitu XI-MIPA 1 sebagai kelas eksperimen dan XI-MIPA 2 sebagai kelas kontrol. Penelitian ini dilaksanakan di SMAS PAB 8 Saentis pada bulan Juli 2022. Teknik pengumpulan data menggunakan tes kemampuan berpikir kritis siswa. Hasil penelitian diperoleh terdapat pengaruh media *virtual* berbasis kearifan lokal berbantuan *smart application creator* pada materi optik terhadap kemampuan berpikir kritis siswa SMA dengan uji t pada $\alpha = 0,05$ diperoleh sig. (2-tailed) sebesar 0,00, nilai rata-rata N-Gain pada kelas kontrol sebesar 0,53 dan kelas eksperimen sebesar 0,74. Peningkatan aspek kemampuan berpikir kritis meningkat dengan aspek menarik kesimpulan dari pengamatan 84,3%, mengidentifikasi asumsi 80,4%, berpikir secara deduktif 75,2%, membuat interpretasi yang logis 65% dan mengevaluasi argumentasi 88,2%.

Kata Kunci : Media *Virtual*, Kearifan Lokal, *Smart Application Creator*, Optik, Kemampuan Berpikir Kritis

ABSTRAK

THE EFFECT OF VIRTUAL MEDIA BASED ON LOCAL WISDOM ASSISTED BY SMART APPLICATION CREATOR ON OPTICAL MATERIALS ON CRITICAL THINKING ABILITY OF SMA STUDENTS

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This study aims to determine the effect of virtual media based on local wisdom assisted by a smart application creator on optical material on the critical thinking skills of high school students. The method in this study is a quasi-experimental design using a nonequivalent control group design where the sampling technique research uses purposive sampling, the selected research sample is XI-MIPA 1 as the experimental class and XI-MIPA 2 as the control class. This research was conducted at SMAS PAB 8 Saentis in July 2022. The data collection technique used a student's critical thinking ability test. The results showed that there was an effect of virtual media based on local wisdom assisted by a smart application creator on optical material on the critical thinking skills of high school students with a t test at $= 0.05$ obtained sig. (2-tailed) is 0.00, the average value of N-Gain in the control class is 0.53 and the experimental class is 0.74. Increased aspects of critical thinking skills increased with aspects of drawing conclusions from observations 84.3%, identifying assumptions 80.4%, thinking deductively 75.2%, making logical interpretations 65% and evaluating arguments 88.2%..

Key word : virtual media, local wisdom, smart application creator, optics, critical thinking skills