

ABSTRAK

MUTIARA : Pengaruh Model Pembelajaran *Contextual Teaching and Learning* (CTL) Berbantuan Media Audio Visual Terhadap Kemampuan Kognitif dan Minat Belajar Siswa Kelas XI Pada Materi Koloid. **Program Studi Pendidikan Kimia FKIP Universitas Malikussaleh, 2025.**

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Contextual Teaching and Learning* (CTL) terhadap kemampuan kognitif dan minat belajar kelas XI di SMA Negeri 1 Syamtalira tahun ajaran 2024/2025.

Penelitian ini menggunakan pendekatan kuantitatif. Jenis penelitian yang digunakan *Quasi Experimental Design* dengan desain *Nonequivalent Control Group Design*. Teknik pengambilan sampel dilakukan dengan cara *purposive sampling*. Sampel dalam penelitian ini adalah kelas XI IPAS 8 sebagai kelas eksperimen yang berjumlah 29 orang dan kelas XI IPAS 7 sebagai kelas kontrol yang berjumlah 30 orang. Instrumen pengumpulan data yang digunakan yaitu tes berupa soal *choice* untuk mengukur kemampuan kognitif dan non tes berupa angket minat belajar untuk mengukur minat siswa yang diberikan sebelum dan sesudah perlakuan. Teknik analisis data yaitu uji normalitas menggunakan *Shapiro-Wilk*, uji homogenitas menggunakan uji *Levene*, dan uji hipotesis menggunakan uji *Independent Samples Test*.

Hasil penelitian menunjukkan bahwa hasil uji hipotesis *posttest* menggunakan uji-t yaitu (*Independent Samples Test*) didapatkan nilai sig (*2-tailed*) = $0.000 < 0,05$ sehingga H_0 ditolak dan H_a diterima yang menunjukkan bahwa model pembelajaran *Contextual Teaching and Learning* (CTL) berbantuan media audio visual berpengaruh signifikan secara bersamaan terhadap kemampuan kognitif dan minat belajar siswa kelas XI pada materi koloid.

Kata Kunci : Model Pembelajaran *Contextual Teaching and Learning*, Media Audio Visual, Kemampuan Kognitif, Minat Belajar, Koloid

ABSTRACT

MUTIARA: The Effect of the Contextual Teaching and Learning (CTL) Model Assisted by Audio-Visual Media on Cognitive Ability and Learning Interest of Grade XI Students in Colloid Material. **Chemistry Education Study Program, Faculty of Teacher Training and Education, Malikussaleh University, 2025.**

This study aims to determine the effect of the Contextual Teaching and Learning (CTL) model on the cognitive abilities and learning interest of Grade XI students at SMA Negeri 1 Syamtalira during the 2024/2025 academic year.

This study employs a quantitative approach. The research design used is a Quasi-Experimental Design with a Nonequivalent Control Group Design. The sampling technique employed is purposive sampling. The sample in this study consists of Grade XI IPAS 8 as the experimental class, comprising 29 students, and Grade XI IPAS 7 as the control class, comprising 30 students. The data collection instruments used were tests in the form of multiple-choice questions to measure cognitive abilities and non-tests in the form of learning interest questionnaires to measure student interest, administered before and after the intervention. Data analysis techniques included normality tests using the Shapiro-Wilk test, homogeneity tests using the Levene test, and hypothesis tests using the Independent Samples Test.

The results of the study indicate that the posttest hypothesis test using the t-test (Independent Samples Test) yielded a sig value (2-tailed) = $0.000 < 0.05$, thus rejecting H_0 and accepting H_a , indicating that the Contextual Teaching and Learning (CTL) model assisted by audio-visual media has a significant simultaneous effect on the cognitive abilities and learning interest of 11th grade students in colloid material.

Keywords: Contextual Teaching and Learning Model, Audio-Visual Media, Cognitive Ability, Learning Interest, Colloids