

ABSTRAK

Andini, NIM 4224441001 (2024). Pengaruh Model *Problem Based Learning* Pola *Dalihan Na Tolu* Berbantuan *Power Point* Terhadap Keterampilan Komunikasi Dan Berpikir Kritis Peserta Didik Kelas X Pada Materi Virus di SMA Nusantara Lubuk Pakam Tahun Pembelajaran 2024/2025.

Penelitian ini bertujuan untuk mengetahui pengaruh model *Problem Based Learning* Pola *Dalihan Na Tolu* berbantuan *Power Point* terhadap keterampilan komunikasi dan berpikir kritis peserta didik pada materi virus di kelas X SMA Nusantara Lubuk Pakam. Penelitian ini menggunakan 2 kelas sebagai sampel dengan total sampel 70 orang peserta didik. Kelas eksperimen melakukan pembelajaran dengan model *Problem Based Learning* Pola *Dalihan Na Tolu* dan kelas kontrol dengan model konvensional, keduanya menggunakan bantuan *Power Point*. Teknik pengumpulan data menggunakan lembar observasi keterampilan komunikasi dan tes berpikir kritis dengan soal essay. Hasil penelitian keterampilan komunikasi yang diperoleh di kelas eksperimen dengan rata-rata sebesar 81,73 dan standar deviasi $\pm 5,88$ lebih tinggi dari kelas kontrol yang memperoleh rata-rata sebesar 67,34 dengan standar deviasi sebesar $\pm 5,52$. Berdasarkan hasil hipotesis yang diuji dengan SPSS versi 15 menunjukkan bahwa terdapat pengaruh model *Problem Based Learning* Pola *Dalihan Na Tolu* terhadap keterampilan komunikasi peserta didik, hal tersebut dapat dilihat dari nilai $\text{sig } 0,000 < 0,05$ dengan $\alpha 0,05$. Sedangkan dari hasil perhitungan tes berpikir kritis diperoleh nilai rata-rata pada kelas eksperimen sebesar 78,9 dengan standar deviasi $\pm 3,64$ lebih tinggi dari pada kelas kontrol dengan nilai rata-rata sebesar 73,5 dengan standar deviasi $\pm 3,50$. Berdasarkan hasil uji hipotesis menunjukkan bahwa model *Problem Based Learning* Pola *Dalihan Na Tolu* terhadap berpikir kritis peserta didik hal tersebut dapat dilihat dari nilai $\text{sig } 0,000 < 0,05$ dengan $\alpha 0,05$. Berdasarkan hasil penelitian diatas dapat disimpulkan bahwa terdapat pengaruh yang signifikan penggunaan model pembelajaran *PBL DNT* berbantuan *Power Point* terhadap keterampilan komunikasi dan berpikir kritis peserta didik kelas X pada materi virus di SMA Nusantara Lubuk Pakam.

Kata Kunci: *Problem Based Learning Dalihan Na Tolu*, Keterampilan Komunikasi, Berpikir Kritis

ABSTRACT

Andini, NIM 4224441001 (2024). The Effect of the Problem Based Learning *Dalihan Na Tolu* Model Assisted by PowerPoint on the Communication Skills and Critical Thinking of Grade X Students on the Topic of Viruses at SMA Nusantara Lubuk Pakam in the 2024/2025 Academic Year.

This study aims to determine the effect of the Problem Based Learning model with *Dalihan Na Tolu* pattern assisted by PowerPoint on students' communication and critical thinking skills in the topic of viruses in grade X at SMA Nusantara Lubuk Pakam. The study involved two classes as samples, with a total of 70 students. The experimental class used the Problem Based Learning model with *Dalihan Na Tolu* pattern, while the control class used a conventional model, both assisted by PowerPoint. Data collection techniques included observation sheets for communication skills and critical thinking tests using essay questions. The results showed that the communication skills in the experimental class had an average score of 81.73 with a standard deviation of ± 5.88 , which was higher than the control class, which had an average score of 67.34 with a standard deviation of ± 5.52 . Hypothesis testing using SPSS version 15 indicated that there is an effect of the Problem Based Learning model with *Dalihan Na Tolu* pattern on students' communication skills, as evidenced by a sig value of $0.000 < 0.05$ with $\alpha = 0.05$. Furthermore, the critical thinking test results showed that the experimental class had an average score of 78.9 with a standard deviation of ± 3.64 , which was higher than the control class, which had an average score of 73.5 with a standard deviation of ± 3.50 . Hypothesis testing results showed that the Problem Based Learning model with *Dalihan Na Tolu* pattern positively influenced students' critical thinking skills, as indicated by a sig value of $0.000 < 0.05$ with $\alpha = 0.05$. Based on the results of this study, it can be concluded that there is a significant effect of using the Problem Based Learning model with *Dalihan Na Tolu* pattern assisted by PowerPoint on the communication and critical thinking skills of grade X students on the virus topic at SMA Nusantara Lubuk Pakam.

Keywords: Problem Based Learning *Dalihan Na Tolu*, Communication Skills, Critical Thinking