ABSTRAK

Nadia Natasya, NIM 4214441001 (2025). Pengaruh Model Pembelajaran *Problem Based Learning* Berbasis *Dalihan Na Tolu* Terhadap Keterampilan Kolaborasi dan Berpikir Kritis Siswa Kelas X pada Materi Keanekaragaman Hayati di SMA Negeri 17 Medan.

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning* berbasis *Dalihan Na Tolu* terhadap keterampilan kolaborasi dan berpikir kritis siswa kelas X pada materi keanekaragaman hayati di SMA Negeri 17 Medan. Populasi penelitian ini ialah seluruh siswa kelas X SMA Negeri 17 Medan dengan jumlah 286 orang. Sampel penelitian berjumlah 71 orang yaitu kelas X-7 sebagai kelas eksperimen dengan model pembelajaran *Problem Based Learning* berbasis *Dalihan Na Tolu* dan kelas X-3 sebagai kelas kontrol dengan model pembelajaran *Problem Based Learning*. Data diperoleh dengan lembar observasi keterampilan kolaborasi dan tes berpikir kritis siswa berupa 10 soal uraian yang telah divalidasi oleh validator. Hasil penelitian pengaruh model *Problem Based Learning* berbasis *Dalihan Na Tolu* terhadap kemampuan keterampilan kolaborasi dan berpikir kritis siswa yang ditunjukkan dari hasil uji t terhadap keterampilan kolaborasi siswa yang menunjukkan nilai signifikansi 2-tailed 0,001 < 0,05 (α) sehingga H_a diterima dan hasil uji t terhadap kemampuan berpikir kritis siswa yang menunjukkan nilai signifikansi 2-tailed 0,001<0,05(α) sehingga H_a diterima. Berdasarkan hasil penelitian tersebut maka dapat disimpulkan terdapat pengaruh model pembelajaran *Problem Based Learning* berbasis *Dalihan Na Tolu* terhadap keterampilan kolaborasi dan berpikir kritis siswa kelas X pada materi keanekaragaman hayati di SMA Negeri 17 Medan.

Kata Kunci: Pengaruh, Model Pembelajaran *Problem Based Learning Dalihan Na Tolu,* Keterampilan Kolaborasi, Berpikir Kritis

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ABSTRACT

Nadia Natasya, NIM 4214441001 (2025). The Influence of the Dalihan Na Tolu-based Problem Based Learning Model on the Collaboration and Critical Thinking Skills of Class X Students on the Biodiversity Material at SMA Negeri 17 Medan.

This research aims to determine the effect of the Dalihan Na Tolu-based Problem Based Learning model on the collaboration and critical thinking skills of class X students on biodiversity material at SMA Negeri 17 Medan. The population of this study was all class X students of SMA Negeri 17 Medan with a total of 286 people. The research sample was 71 people, namely class X-7 as an experimental class with the Dalihan Na Tolu-based Problem Based Learning model and class X-3 as a control class with the Problem Based Learning model. Data were obtained with observation sheets for collaboration skills and students'critical thinking tests in the form of 10 essay questions that had been validated by the validator. The results of the study on the effect of the Dalihan Na Tolu-based Problem Based Learning model on students'collaboration and critical thinking skills were shown from the results of the t-test on students'collaboration skills which showed a 2 tailed significance value of $0,001 < 0,05$ (α) so that H_a was accepted and the results of the t-test on students'critical thinking skills showed a 2 tailed significance value of $0,001 < 0,05$ (α) so that H_a was accepted. Based on the results of the research it can be concluded that there is an influence of the Dalihan Na Tolu-based Problem Based Learning model on the collaboration and critical thinking skills of class X students on the biodiversity material at SMA Negeri 17 Medan.

Keywords: Influence, Problem Based Learning Dalihan Na Tolu Learning Model, Collaboration Skills, Critical Thinking

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