

ABSTRAK

Nurjalila Hi Yusuf. 2021. Pengaruh model pembelajaran *discovery learning* berbasis pendekatan saintifik terhadap keterampilan proses sains siswa kelas XI IPA SMA Negeri 2 Halmahera Utara pada materi Usaha dan Energi Tahun Ajaran 2021 dibawah bimbingan bapak Dr. Nasrun Balulu, S.Pd, M.Si dan Bapak Dr. Rahim Achmad, M.Si Ternate: Fakultas keguruan dan Ilmu Pendidikan Universitas Khairun 2021.

Rendahnya Keterampilan proses sains dikarenakan masih banyak siswa yang memiliki kesulitan belajar. Hal ini dikarenakan siswa merasa bosan dan kurang memperhatikan penjelasan guru pada saat pembelajaran berlangsung, sehingga tujuan pembelajaran belum tercapai dan proses belajar berjalan lambat.

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *discovery learning* berbasis pendekatan saintifik terhadap keterampilan proses sains pada materi usaha dan energi kelas XI IPA di SMA Negeri 2 Halmahera Utara Tahun Ajaran 2021. Metode penelitian yang digunakan adalah korelasi dengan desain penelitiannya adalah eksperimen. Populasi penelitian ini adalah keseluruhan siswa kelas XI IPA di SMA Negeri 2 Halmahera Utara yang berjumlah 64 orang, sedangkan sampel dalam penelitian ini berjumlah 24 orang dengan teknik pengambilan sampel adalah teknik acak kelas (*cluster sampling*). Teknik data yang digunakan yaitu teknik analisis regresi linier sederhana.

Hasil analisis menunjukkan bahwa terdapat pengaruh model pembelajaran *discovery learning* berbasis pendekatan saintifik terhadap keterampilan proses sains. Berdasarkan uji hipotesis dengan menggunakan uji regresi diperoleh nilai $t_{hit} = 2.43$ sedangkan $t_{tab} = 2,074$ atau $t_{hit} > t_{tab}$ sehingga hipotesis yang menyatakan terhadap pengaruh antara model pembelajaran *discovery learning* berbasis pendekatan saintifik terhadap keterampilan proses sains dapat diterima. Sedangkan untuk melihat besar pengaruh model pembelajaran *discovery learning* berbasis pendekatan saintifik secara bersama terhadap keterampilan proses sains menggunakan uji statistik regresi sederhana dan kolerasi dimana pengaruh model pembelajaran *discovery learning* berbasis pendekatan saintifik terhadap keterampilan proses sains sebesar 0,46 dengan koefisien determinan yaitu sebesar 21%.

Kata kunci : *Discovery learning*, Keterampilan proses sains dan Usaha dan energi.

ABSTRACT

Nurjalila Hi Yusuf. 2021. The effect of discovery learning model based on scientific approach to the science process skills of students of class XI IPA of SMA Negeri 2 Halmahera Utara on Business and Energy material for 2020 Academic Year under the guidance of Dr. Nasrun Balulu, S.Pd, M.Sc and Dr. Rahim Achmad, M.Si Ternate: Faculty of Teacher Training and Education Khairun University 2021.

Low science process skills because there are still many students who have learning difficulties. This is because students feel bored and pay less attention to the teacher's explanation when learning takes place, so the learning objectives have not been reached and the learning process runs slowly.

This study aims to determine the effect of the discovery learning model based on a scientific approach to science process skills in business material and energy class XI IPA in SMA Negeri 2 Halmahera Utara Academic Year 2021. The research method used is correlation with the research design is an experiment. The population of this research was all of the students of class XI IPA in SMA Negeri 2 Halmahera Utara with a total of 64 people, while the sample in this research amounted to 24 people with the sampling technique was a random class technique (cluster sampling). The data technique used was linear regression analysis technique simple.

The results of the analysis show that there is an influence of discovery learning models based on scientific approaches to science process skills. Based on hypothesis testing using regression tests obtained $t_{hit} = 2.43$ while $t_{tab} = 2.074$ or $t_{hit} > t_{tab}$ so that hypotheses that state the influence of discovery learning models based on scientific attachment to science process skills can be accepted. Where as to see the effect of discovery learning model based on scientific approach together to the process of science using simple regression and correlation statistical tests where the effect of discovery learning model based on the scientific approach to science process skills is 0.46 with a determinant coefficient of 21%.

Keywords: Discovery learning, Science process skills and Business and energy.