

ABSTRAK

Intan Leli Pitaloka, NIM 4182141005 (2018). Analisis Kemampuan Berpikir Kritis dan Sikap Ilmiah Melalui Pembelajaran *Project Based Learning* di Masa Pandemi Covid-19 pada Materi Sistem Pernapasan Manusia di Kelas XI SMA Negeri 1 Babalan Angkatan 2021/2022.

Penelitian ini dilatarbelakangi atas sering dilakukannya Pembelajaran *Project Based Learning* oleh guru SMA Negeri 1 babalan. Hasil wawancara menyatakan tidak ada perangkat terencana untuk mengukur proses pembelajaran berbasis proyek sehingga pembelajaran tidak runtut. Guru telah mengupayakan sikap ilmiah walau penerapannya belum cukup baik. Tingkat berpikir kritis siswa juga masih rendah. Penelitian ini bertujuan untuk mengetahui kemampuan berpikir kritis dan Sikap Ilmiah siswa melalui PjBL di masa pandemi covid-19 pada materi sistem pernapasan manusia di kelas XI SMA Negeri 1 Babalan Angkatan 2021/2022. Penelitian ini menggunakan jenis penelitian deskriptif dengan pendekatan kuantitatif. Penelitian dilakukan bulan Januari 2022. Populasi dalam penelitian ini adalah seluruh siswa kelas XI MIPA yang tersebar ke dalam 4 kelas dengan jumlah 140 siswa. Sampel di ambil berdasarkan teknik *purposive sampling* diambil berdasarkan kelas yang paling aktif. Sampel pada penelitian yaitu kelas XI MIPA 1. Instrumen penelitian menggunakan tes esai, angket dan lembar observasi. Hasil Penelitian menunjukkan bahwa model PjBl pada masa pandemi covid-19 pada materi pernapasan terpenuhi/tercapai dengan target yang diinginkan sesuai langkah-langkah PjBL walau masih ada tahapan yang tidak sepenuhnya terjalankan dengan baik dengan nilai rata-rata 82,81 % dengan kategori baik sekali. Aktivitas yang harus ditingkatkan lagi khususnya pada aktivitas dalam menyampaikan tujuan pembelajaran, aktivitas dalam membimbing siswa mengenai waktu pengumpulan tugas, kemampuan dalam menilai hasil pembelajaran. Berdasarkan seluruh indikator kemampuan berpikir kritis pada materi sistem pernapasan manusia dianalisis kategori kemampuan berpikir kritis siswa SMA Negeri 1 babalan adalah kategori tinggi bernilai rata-rata dari seluruh indikator yaitu $70 \pm 7,01$. Berdasarkan seluruh indikator Sikap Ilmiah pada materi sistem pernapasan manusia dianalisis kategori kemampuan Sikap Ilmiah siswa SMA Negeri 1 babalan adalah kategori Baik dengan rata-rata nilai $79 \pm 7,24$. Dari hasil penelitian didapat bahwa kemampuan berpikir kritis dan sikap ilmiah melalui pembelajaran *project based learning* di masa pandemi covid-19 pada materi sistem pernapasan manusia di kelas XI SMA Negeri 1 babalan angkatan 2021/2022 sudah dilaksanakan oleh SMA Negeri 1 Babalan.

Kata kunci : Pembelajaran *Project Based Learning* (PjBL), Berpikir Kritis, Sikap Ilmiah.

ABSTRACT

Intan Leli Pitaloka, NIM 4182141005 (2018). Analysis of Critical Thinking Ability and Scientific Attitude through Project Based Learning During the Covid-19 Pandemic on Human Respiratory System Material in Class XI of SMA Negeri 1 Babalan Class of 2021/2022.

This research is motivated by the frequent implementation of Project Based Learning by teachers of SMA Negeri 1 Babalan. The results of the interview stated that there was no planned tool to measure the project-based learning process so that learning was not coherent. The teacher has attempted a scientific attitude even though the implementation has not been good enough. The critical thinking level of students is also still low. This study aims to determine students' critical thinking skills and scientific attitudes through PjBL during the COVID-19 pandemic on the human respiratory system material in class XI of SMA Negeri 1 Babalan Force 2021/2022. This study uses a descriptive type of research with a quantitative approach. The study was conducted in January 2022. The population in this study were all students of class XI MIPA which were divided into 4 classes with a total of 140 students. Samples were taken based on purposive sampling technique taken based on the most active class. The sample in the study was class XI MIPA 1. The research instrument used essay tests, questionnaires and observation sheets. The results showed that the PjBl model during the covid-19 pandemic on respiratory material was met/achieved with the desired target according to the PjBL steps although there were still stages that were not fully implemented with an average value of 82.81% in the very good category. . Activities that must be improved, especially in activities in conveying learning objectives, activities in guiding students regarding the time of collecting assignments, the ability to assess learning outcomes. Based on all indicators of critical thinking skills on the material of the human respiratory system, the critical thinking ability category of SMA Negeri 1 Babalan students was analyzed in the high category with the average value of all indicators, namely 70 ± 7.01 . Based on all indicators of Scientific Attitude on the material of the human respiratory system, the category of Scientific Attitude of students at SMA Negeri 1 Babalan was analyzed in the Good category with an average value of 79 ± 7.24 . From the results of the study, it was found that critical thinking skills and scientific attitudes through project based learning during the COVID-19 pandemic on the human respiratory system material in class XI SMA Negeri 1 Babalan class 2021/2022 had been carried out by SMA Negeri 1 Babalan.

Keywords : Project Based Learning (PjBL), Critical Thinking, Scientifict Attitude.