

ABSTRAK

**PENGARUH PENERAPAN METODE PRAKTIKUM BERBASIS INKUIRI
TERBIMBING MENGGUNAKAN BAHAN ALAM PADA MATERI ASAM BASA
TERHADAP HASIL BELAJAR PESERTA DIDIK**

Apolinaris Snoe Tonbesi
Universitas Sanata Dharma
2023

Materi asam basa merupakan materi yang sulit untuk dipelajari peserta didik di SMA Pangudi Luhur Sedayu, Yogyakarta. Praktikum merupakan salah satu metode pembelajaran yang dapat membantu peserta didik untuk meningkatkan hasil belajar. Penelitian ini merupakan penelitian kuantitatif dengan desain *a quasi-experimental design: pretest-posttest non-equivalent group design*. Sampel penelitian melibatkan 50 orang peserta didik kelas XI SMA Pangudi Luhur Sedayu. Dalam penelitian ini, kelas XI MIPA 1 bertindak sebagai kelas kontrol dan kelas XI MIPA 2 sebagai kelas eksperimen. Kelas eksperimen diberikan perlakuan menggunakan metode praktikum berbasis inkuiri terbimbing, sedangkan kelas kontrol melaksanakan praktikum secara konvensional. Instrumen penelitian ini berupa lembar wawancara, lembar observasi, lembar butir soal *pretest* dan *posttest* dan lembar angket. Data dianalisis secara deskriptif kuantitatif dan kualitatif. Hasil penelitian menunjukkan bahwa penerapan metode praktikum yang diberikan berpengaruh terhadap hasil belajar peserta didik dengan rata-rata nilai *pretest* dan *posttest* peserta didik kelas kontrol adalah 82 dan kelas eksperimen adalah 90, sehingga selisihnya berkisar pada angka 8 poin. Berdasarkan hasil *N-Gain*, diperoleh rata-rata kelas kontrol adalah 0,59 dengan kategori sedang, sedangkan rata-rata kelas eksperimen mencapai 0,70 dengan kategori tinggi. Berdasarkan hasil observasi praktikum, diperoleh rata-rata persentase ranah psikomotorik sebesar 66,66% dan ranah afektif sebesar 66,66%. Uji hipotesis menggunakan *independent sample t-test* menunjukkan nilai *sig.* (0,044) < 0,05 yang artinya H_1 diterima dan H_0 ditolak, sehingga dapat disimpulkan bahwa penerapan metode praktikum berbasis inkuiri terbimbing berpengaruh terhadap hasil belajar peserta didik.

Kata Kunci: Praktikum, asam basa, inkuiri terbimbing, hasil belajar.

ABSTRACT**THE EFFECT OF THE IMPLEMENTATION OF GUIDED INQUIRY-BASED PRACTICUM METHOD USING NATURAL MATERIALS ON ACID-BASE MATERIAL ON STUDENT'S LEARNING OUTCOMES**

Apolinaris Snoe Tonbesi
Sanata Dharma University
2023

Acid-base material is a difficult topic for students to learn at Pangudi Luhur Sedayu High School, Yogyakarta. Practicum is one of the learning methods to overcome that problem. The research conducted aims to determine the effect of the implementation of the guided inquiry-based practicum method on students' learning outcomes. This research is a quantitative research with a quasi-experimental design: pretest-posttest non-equivalent group design. The research sample involved 50 students of class XI at Pangudi Luhur Sedayu High School. In this research, class XI MIPA 1 acted as the control class and class XI MIPA 2 as the experimental class. The experimental class was given treatment using a guided inquiry-based practicum method, while the control class carried out conventional practicum. This research instrument is in the form of an interview sheet, observation sheet, question item sheet of pretest and posttest and questionnaire sheet. Data was analyzed descriptively, quantitatively and qualitatively. The results of the research showed that the implementation of the practicum method provided has an effect on student learning outcomes with average grades pretest and posttest the control class students was 82 and the experimental class was 90, so the difference was around 8 points. Based on the results of N-Gain, the control class average was 0.59 in the medium category, while the experimental class average was 0.70 in the high category. Based on the results of practical observations, the average percentage in the psychomotor domain was 66.66% and the affective domain was 66.66%. Hypothesis testing using an independent sample t-test showed the value sig. (0.044) < 0.05, which means H_1 is accepted and H_0 is rejected, so it can be concluded that the implementation of the guided inquiry-based practicum method affects the learning outcomes of students.

Keywords: *Practicum, acid-base, guided inquiry, learning outcomes.*