

ABSTRAK

KETERAMPILAN PROSES SAINS SISWA LAKI-LAKI DAN SISWA PEREMPUAN DI SMP NEGERI 3 MLATI PADA MATERI RANGKAIAN LISTRIK SERI DAN PARALEL

Mohamad Rafli Prana Wijaya

Universitas Sanata Dharma

Yogyakarta

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Tujuan penelitian ini adalah untuk mengetahui (1) Keterampilan proses sains antara siswa laki-laki dan siswa perempuan pada materi rangkaian listrik seri dan paralel. (2) Ada atau tidaknya perbedaan keterampilan proses sains antara siswa laki-laki dan siswa perempuan pada materi rangkaian listrik seri dan paralel.

Jenis penelitian ini adalah gabungan atau campuran dari dua jenis penelitian yakni penelitian kuantitatif dan kualitatif. Populasi dalam penelitian ini adalah seluruh peserta didik kelas IX semester I SMP Negeri 3 Mlati tahun pelajaran 2022/2023. Teknik pengambilan sampel yang digunakan adalah *Purposive sampling*. Data penelitian berupa keterampilan proses sains, peserta didik yang meliputi keterampilan mengamati, mengajukan hipotesis, melakukan percobaan, menerapkan konsep, dan berkomunikasi. Data keterampilan proses sains diperoleh dari lembar observasi dan lembar kerja peserta didik. Analisis data dalam penelitian ini menggunakan uji t independent. Uji t dilakukan setelah dilakukan uji prasyarat yaitu uji normalitas dan uji homogenitas.

Hasil penelitian menunjukkan bahwa: (1) Pada materi rangkaian listrik seri dan paralel siswa laki-laki memperoleh nilai rata-rata 86, sedangkan siswa perempuan memperoleh nilai rata-rata 87. (2) Tidak terdapat perbedaan keterampilan proses sains antara siswa laki-laki dan siswa perempuan pada materi rangkaian listrik seri dan paralel.

Kata kunci: keterampilan proses sains, jenis kelamin, rangkaian arus listrik

ABSTRACT

SCIENCE PROCESSING SKILLS OF MALE AND FEMALE STUDENTS AT SMP NEGERI 3 MLATI IN SERIES AND PARALLEL ELECTRICAL CIRCUITS MATERIALS

Mohamad Rafli Prana Wijaya

Sanata Dharma University

Yogyakarta

2023

The purpose of this study was to determine (1) Science process skills between male and female students in series and parallel electrical circuits. (2) Whether or not there are differences in science process skills between male and female students in series and parallel electrical circuits.

This type of research is a combination or mixture of two types of research, namely quantitative and qualitative research. The population in this study were all class IX students in the first semester of SMP Negeri 3 Mlati in the 2022/2023 academic year. The sampling technique used was purposive sampling. The research data is in the form of students' science process skills which include observing skills, proposing hypotheses, conducting experiments, applying concepts, and communicating. Data on science process skills were obtained from observation sheets and student worksheets. Data analysis in this study used the independent t test. The t test was carried out after the prerequisite tests were carried out, namely the normality test and homogeneity test.

The results showed that: (1) In series and parallel electrical circuit material, male students obtained an average score of 86, while female students obtained an average score of 87. (2) There was no difference in science process skills between male students and female students on series and parallel electrical circuits.

Keywords: science process skills, gender, electric circuits