

**ABSTRAK**

**Esti Widowati, Pemahaman Siswa Kelas Tiga SMP Negeri I Jogonalan Mengenai Rangkaian Listrik Sederhana Serta Perubahannya Melalui Pembelajaran Dengan Metode Demonstrasi.**

**Program Studi Pendidikan Fisika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta (2006).**

Penelitian ini bertujuan untuk mengetahui pemahaman siswa mengenai konsep-konsep yang berhubungan dengan rangkaian listrik sederhana dan perubahan pemahaman mengenai konsep-konsep tersebut setelah mengikuti pembelajaran dengan metode demonstrasi.

Penelitian dilaksanakan di SMP Negeri I Jogonalan, Klaten. Subyek penelitian siswa-siswi kelas III G yang berjumlah 32 siswa. Penelitian ini dilaksanakan selama bulan September – Desember 2005.

Instrumen yang digunakan dalam penelitian ini adalah tes tertulis yang terdiri dari pretes dan postes, rancangan pembelajaran, dan pertanyaan wawancara. Rancangan pembelajaran disusun dari data pretes dan wawancara I. Wawancara dilakukan untuk mengetahui pemahaman partisipan lebih mendalam.

Hasil penelitian menunjukkan pemahaman partisipan mengenai konsep-konsep yang berhubungan dengan rangkaian listrik sederhana adalah baik pada konsep rangkaian listrik sederhana, sederhana pada konsep hambatan kawat dan Hukum Ohm, dan mengalami miskonsepsi pada konsep arus listrik. Melalui pembelajaran dengan metode demonstrasi pemahaman yang sederhana menjadi berkembang dan miskonsepsi dapat diperbaiki. Penelitian ini juga menunjukkan bahwa pengaturan waktu pelaksanaan kegiatan belajar mengajar berpengaruh terhadap keberhasilan kegiatan belajar mengajar tersebut.

**ABSTRACT**

**Esti Widowati, Understanding About Simple Electric Circuit Using Demonstration Method at Students' Studied and Their Change in the 3<sup>rd</sup> Grade Students of SMP Negeri I Jogonalan.**

**Physics Education Program, Department of Mathematics and Science Education, Faculty of Teacher Training and Education, Sanata Dharma University, Yogyakarta (2006)**

The goals of the research were to find out the students' understanding about concepts that deal with simple electric circuit and their change in understanding about concepts after they studied using demonstration method.

The research was held in the 3<sup>rd</sup> grade of SMP Negeri I Jogonalan. And the subjects of the research were students of IIIIG, which consisted of 32 students. The research had been held from September until December 2005.

There were three instruments which were used in this research. They were; written test consist of pre-test and pos-test, lesson plan, and interview scene. The lesson plan was constructed based on the data from pre-test and interview I. the interview was done to find out the participants understanding.

The result of the research showed the participants' understanding about concepts that deal with the simple electric circuit. They were good in simple electric circuit concept, but rather simple in resistor concepts and in Ohm's Law. Further, they were misconception in electric current. Using demonstration method simple understanding was elaborated better and misconception was fixed. This research also showed that the time meeting of research implementation influenced on learning-teaching activities.