

## ABSTRAK

**Muhammad Najib Ridwan 5215141097**, Pengaruh Implementasi Media Pembelajaran Berbasis *E-Learning Schoology* Pada Mata Pelajaran Dasar Listrik Dan Elektronika Di SMK Mitra Industri MM 2100 Kelas X Jurusan Teknik Elektronika Industri, Program Studi S1 Pendidikan Vokasional Teknik Elektronika – Fakultas Teknik – Universitas Negeri Jakarta, Dosen Pembimbing 1 Dr. Moch. Sukardjo, M.Pd dan Dosen Pembimbing 2 Drs. Wisnu Djatmiko, MT.

Penelitian Pengaruh implementasi media pembelajaran berbasis *e-learning schoology* pada mata pelajaran dasar listrik dan elektronika di SMK Mitra Industri MM2100 Kelas X Jurusan Teknik Elektronika Industri menggunakan metode Eksperimen yaitu menggunakan metode *Pre experimental Design* dengan desain penelitian "*One Group Pretest-Posttest Design*". Populasi dalam penelitian ini adalah peserta didik kelas X Jurusan Teknik Elektronika Industri SMK Mitra Industri MM 2100 Tahun Ajaran 2018/2019. Teknik Pengambilan sample menggunakan Teknik *Probability Sampling* dengan teknik *Simple Random Sampling*, sampel yang digunakan adalah peserta didik kelas X Elind 1 Teknik Elektronika Industri MM 2100 sebagai kelas eksperimen yang belajar menggunakan media pembelajaran berbasis *E-Learning Schoology* pada mata pelajaran dasar listrik dan elektronika. Instrumen Penelitian berupa tes pilihan ganda sebanyak 72 butir soal.

Uji persyaratan analisis dilakukan melalui uji normalitas. Pengujian normalitas dengan menggunakan uji *Chi Kuadrat* pada *pretest*, diperoleh  $\chi^2_{hitung} < \chi^2_{tabel}$  yaitu  $4,880 < 11,070$  sehingga data berdistribusi normal, sedangkan pada *posttest* diperoleh  $\chi^2_{hitung} < \chi^2_{tabel}$  yaitu  $7,756 < 11,070$  sehingga data berdistribusi normal untuk kedua *pretest* dan *posttest*. Pengujian hipotesis menggunakan rumus uji-t untuk *dua sample related* yang diperoleh  $t_{hitung} > t_{tabel}$  yaitu  $38,60 > 1,68$  pada taraf signifikansi  $\alpha = 0,05$ , maka  $H_0$  ditolak dan  $H_a$  diterimasehingga dapat disimpulkan bahwa terdapat pengaruh positif terhadap hasil belajar peserta didik dengan menggunakan media pembelajaran berbasis *e-learning schoology* pada mata pelajaran dasar listrik dan elektronika di smk mitra industri mm2100 kelas X Elind 1 jurusan teknik elektronika industri di SMK Mitra Industri MM 2100.

**Kata Kunci** :Media pembelajaran, e-learning, schoology, Hasil belajar peserta didik, DasarListrik dan Elektronika

## ABSTRACT

**Muhammad Najib Ridwan 5215141097**, Influence Media Implementation E-Learning-Based of Schoology Learning in Basic Electrical and Electronics Subjects in SMK Mitra Industri MM 2100 Grade X Industrial Electronics Engineering. Electronic Engineering Educative Program – Faculty Of Engineering – Universitas Negeri Jakarta, Supervisor 1 Dr. Moch. Sukardjo, M.Pd and Supervisor 2 Drs. Wisnu Djatmiko, MT.

This study aims to understand the influence of the media implementation E-Learning-Based of Schoology Learning in Basic Electrical and Electronics Subjects in SMK Mitra Industri MM 2100 Grade X Industrial Electronics Engineering. The research method uses the Experimental method that is using the Preexperimental Design method with the research design "One Group Pretest-Posttest Design". The population in this research were class X students of Industrial Electronics Engineering SMK Mitra Industri MM 2100 Academic Year 2018/2019. The sampling technique uses the Probability Sampling Technique with Simple Random Sampling technique, the sample used is the X Elind 1 Industrial Electronics Engineering MM 2100 students as an experimental class who learns to use Schoology E-Learning based learning media on basic electrical and electronic subjects. The research instrument was a multiple choice test of 72 items.

Test requirements analysis was carried out through a normality test. Normality testing using the Chi Square test at pretest, obtained  $\chi^2_{Count} < \chi^2_{table}$  which is  $4.880 < 11,070$  so that the data is normally distributed, while in the posttest is obtained  $\chi^2_{Count} < \chi^2_{table}$  which is  $7.756 < 11.070$  so that the data are normally distributed for both pretest and posttest. Hypothesis testing uses the t-test formula for two related samples obtained  $t_{count} > t_{table}$  which is  $38,60 > 1,68$  at the significance level  $\alpha = 0.05$ , then  $H_0$  is rejected and  $H_a$  is accepted so it can be concluded that there is a positive influence on student learning outcomes by using E-Learning-Based of Schoology Learning in Basic Electrical and Electronics Subjects in SMK Mitra Industri MM 2100 Grade X Industrial Electronics Engineering

**Keywords** : Learning media, e-learning, schoology, learning outcomes of students, Basic Electricity and Electronics