

## ABSTRACT

**MITTA SAPUTRI, Effect of E-learning model to learning outcomes of Repair and Maintenance of Household Appliance subject (Studies in Department of Electrical Engineering). Advisor Drs. Irzan Zakir, M.Pd, and Aris Sunawar, S.Pd, MT.**

The purpose of this study was to determine the average effect of learning outcomes of P2RT (Repairs and Maintenance Household Appliance) subject with e-learning. This research was conducted at Department of Electrical Engineering, State University of Jakarta. With e-learning so that it can support the learning process.

This study uses quasi experiment research method, as in this study, there are two groups or samples, namely group A as the experimental class was given treatment using e-learning, while the group B as a control class was given treatment using power point (do not use e- learning).

Once the research is done in the form of data obtained average learning outcomes of group A as experimental is 81.4 and the average learning outcomes of group B control is 65.3. From the results of hypothesis testing showed  $t_{count} (8.89) > t_{table} (1.684)$ , meaning that there is a difference between group A experiment and group B control.

It can be concluded that the learning outcomes of P2RT (Repairs and Maintenance Household Appliance) subject in group A experiment that using e-learning is higher than group B control which does not use e-learning (using power point).

**Keywords: E-learning model , E-learning, and learning outcomes.**