

Name : Thong Lantharthong
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Training Kit and the Experimentation
of its Efficiency
Thesis Advisors : Mr. Pramol Kongsakorn, Mr. Mani
Sittichai, Mr. Panarit Sethakul
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Abstract

The research was aimed at building and finding out the efficiency of the power electronics training kit.

Ways to conduct the research, the power electronics training kit was developed and was tested on a sample group of fifty four second year Diploma students in Electrical Power from 3 different Institutes : the Industrial Technology College of King Mongkut 's Institute of Technology North Bangkok and Rajamangala Institute of Technology, North Bangkok Campus and Nonthaburi Campus. The sample group was sub-divided into eighteen groups, six groups from each Institute. The experimental process was done by asking each group to do ten experiments consecutively. To assess the accuracy of the training kit, the results of the experiments were compared with calculated, or theoretical, voltage and expressed as a percentage.

The finding of this research showed that the efficiency in terms of accuracy of the power electronics training kit was 90.33 percent which was higher than the set criteria.