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Abstract

The purpose of this research was to construct an Electronic Circuit I Experiment Set along with 7 lab sheets for teaching course on Electronic Circuit I according to the 1984 curriculum of the higher Vocational Certificate, the Department of Vocational Education, Ministry of Education, to compare learning achievement by using the Electronic Circuit I Experiment Set with the former experiment set and to evaluate the ease of use, the relevance to the curriculum and the design of the experiment set.

The research instruments were the Electronic Circuit I Experiment Set and the former set along with lab sheets. The samples were the third year students of Electronics Department of Yala Technical College who graduated in 1991. The samples were divided into two groups of 16 of each. The experimental group learned with the Electronic Circuit I Experiment Set and the control group learned with the former experiment set. The data obtained from the test were analysed. After the experiment, the Electronic Circuit I Experiment Set was evaluated for the ease of use, the relevance to the curriculum and the design by 5 instructors and the data was collected by using questionnaires.

The findings revealed the Electronic Circuit I Experiment Set obtained higher learning achievement than the former one but not as statistically different as hypothesized. However, it has high level of suitability for use, is relevance to the curriculum and has academic value.