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Thesis Title : A Comparative Study of Learning Achievement and Retention by Using Dissolved Slide-Tape Program and Overlay Transparency-Tape Program in Teaching Technical Mechanics.

Major Field : Technical Education Technology

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Abstract

This study was an experimental research aimed to compare the students' learning achievement and retention by using dissolved slide-tape program and overlay transparency-tape program in teaching Technical Mechanics. The sample groups were 40 second-year students of the 1993 academic year in a Vocational Education Certificate program, the Department of Machine-shop, Phichit Technical College. The sample groups were randomized matching into 2 experimental groups, each group comprised 20 students.

This research instruments were as follows : a dissolved slide-tape program, an overlay transparency-tape program, an achievement test and a retention test on "Gears" developed by the researcher. Scores from the tests were analyzed to obtain the arithmetic mean, standard deviation and validated by means of t-test.

The result is revealed that students' achievement and retention of learning by using dissolved slide-tape program and overlay transparency-tape program had no significant difference at the .05 statistical level.