

IMPLEMENTATION OF ONLINE LEARNING COOPERATIVE STRATEGIES TO INCREASE ENGAGEMENT AND LEARNING OUTCOMES LATHE MACHINING

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ABSTRACT

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This study aims to determine; (1) differences in student involvement in the practice of Lathe Machining with cooperative online learning (COL) strategies and online learning (OL) strategies; (2) differences in Lathe Machining learning outcomes between students in the class with the COL strategy and the class with the traditional OL strategy; (3) Differences in Lathe Machining learning outcomes between students with high involvement in class with COL strategy and class with traditional OL strategy; (4) Differences in Lathe Machining learning outcomes for students with low involvement in class with COL strategy and class with traditional OL strategy. This research is a quasi-experimental, the sample selection for the experimental class and the control class is done randomly from eight Lathe Machining classes. Data analysis in this study used 2-way ANOVA with one treatment variable and one attribute variable. The results showed; (1) student involvement in Lathe Machining learning with the COL strategy is higher than with the traditional OL strategy; (2) the learning outcomes of Lathe Machining with COL strategy are higher than those with traditional OL strategies; (3) there is no difference in Lathe Machining learning outcomes of students with high involvement between the COL class and the traditional OL class; (4) there is no difference in students' Lathe Machining learning outcomes with low involvement between the COL class and the traditional OL class.

Key word: lathe learning outcome, cooperative learning, online learning,

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