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Thesis Title : Building and Finding Efficiency of Gear Power Transmission  
Experimenting Kit  
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#### Abstract

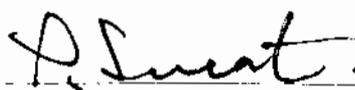
This research had the objectives of building and finding the efficiency of the gear power experimental kit that was to be used as a teaching and learning medium of the Mechanical Design Course (5724102) in the bachelor's degree level, Mechanical Industrial Technology Program, Rajabhat University, Kanjanaburi Province. The said gear power experimental kit was required to record the Index of Consistency at 0.5 at least.

The research methodology of this research aimed to build the experimental kit that can test spur gears, helical gears and bevel gears and comprises of content sheets, experimental sheets, exercise sheets and test sheets. The built experimental kit then was assessed by specialists and then tested in real teaching and learning. After teaching completion, students were asked to do the exercises and tests. The subjects of the study who had been chosen specifically were 20 students studying for a bachelor's degree having passed the mechanical design course.

The research found out that the efficiency of the gear power experimental kit created by the researcher was 82.1/86.2. The assessment towards the specialists' opinions on the experimental kit as well as the experiments and quality of the experimental kit revealed the average Index of Consistency at 0.91, showing their agreement with the experimental kit built subsequently to the data analysis that the experimental kit built recorded higher efficiency than the stipulated criteria.

(Total 127 pages)

Keywords : Gear Power Transmission Experimenting Kit



Advisor