## Physics Problem Solving Skills of Civil Engineering Students by Implementing Problem-Based Learning.

- **Author(s):** Johar Maknun
- **Abstract:** The research aims to determine the physics problem-solving skills of civil engineering students by implementing problem-based learning. The research is quasi-experimental, comprising a posttest-only design method. The experimental and control models received treatment of problem-based and conventional learning models, respectively. The total subjects were 156 students consisting of 76 male and 80 female. The result showed that the implementation of problem-based learning positively impacts physics problem-solving skills students of civil engineering bachelor program. Furthermore, the concepts of dynamics, work, equilibrium, and the average score of all students carrying out problem-based learning were in the high category. Meanwhile, those carrying out conventional learning on dynamic concepts were in the high category and for the concept of work, equilibrium, and the average scores in the medium category. The research recommends the use of a problem-based learning method to improve the teaching and quality of learning outcomes.
- Keywords: problem-based learning, quasi-experimental, posttest-only design, equilibrium