

## ABSTRAK

**Annisa Maghfiro. NIM 5133111006. Penerapan Model Pembelajaran Problem Solving Untuk Meningkatkan Aktivitas dan Hasil Belajar Mekanika Teknik Pada Siswa Kelas X Program Keahlian Teknik Konstruksi dan Properti SMK Negeri 2 Binjai. Skripsi. Fakultas Teknik – Universitas Negeri Medan. 2018**

Penelitian ini dilakukan untuk mengatasi permasalahan yang dihadapi oleh guru bidang studi mekanika teknik yaitu kurangnya aktivitas siswa dalam belajar yang dibuktikan melalui pengamatan sewaktu observasi serta hasil belajar siswa yang masih perlu ditingkatkan lagi. Tujuan penelitian ini adalah untuk mengetahui peningkatan aktivitas dan hasil belajar mekanika teknik melalui penerapan model pembelajaran *Problem Solving*. Penelitian ini dilaksanakan di SMK Negeri 2 Binjai semester genap Tahun Ajaran 2017/2018. Subjek penelitian ini adalah siswa kelas X Program Keahlian Teknik Konstruksi dan Properti yang berjumlah 33 orang.

Penelitian ini menggunakan metode penelitian tindakan kelas. Prosedur penelitian dilakukan dalam dua siklus dimana setiap siklusnya terdiri dari empat tahapan, yaitu tahap perencanaan (*planning*), pelaksanaan (*acting*), pengamatan (*observing*), dan refleksi (*reflecting*).

Dari hasil penelitian siklus I didapat aktivitas belajar siswa dengan nilai rata-rata 75,19 dalam kategori cukup aktif meningkat pada siklus II dengan nilai rata-rata 85,10 dalam kategori aktif. Untuk rata-rata nilai hasil belajar siswa pada siklus I yaitu 75,42 dengan kategori cukup kompeten meningkat pada siklus II menjadi 81,82 dengan kategori Kompeten. Hasil penelitian menunjukkan pengajuan hipotesis yang menyatakan bahwa dengan penerapan model pembelajaran *Problem Solving* dapat meningkatkan aktivitas dan hasil belajar siswa pada mata pelajaran mekanika teknik dapat diterima.

*Kata Kunci : Problem Solving, Aktivitas Belajar, Hasil Belajar, Mekanika Teknik*



## ABSTRACT

**Annisa Maghfiro. NIM 5133111006. The Application of Problem Solving Learning Models to Increase Activity and Learning Outcomes of Engineering Mechanics at the student of class Expertise Programs Construction and Property Techniques at SMK Negeri 2 Binjai. Essay. Faculty of Engineering - State University of Medan. 2018**

This research was conducted to overcome the problems faced by teachers in the field of engineering mechanics, namely the lack of student activity in learning that was proven through observation during observation and student learning outcomes that still need to be improved. The purpose of this study was to determine the increase in activity and learning outcomes of engineering mechanics through the application of Problem Solving learning models. This research was carried out at SMK Negeri 2 Binjai even semester 2017/2018 School Year. The subjects of this study were students in class X of the Construction and Property Techniques Expertise Program totaling 33 people.

This study uses classroom action research methods. The research procedure is carried out in two cycles where each cycle consists of four stages, namely planning, acting, observing and reflecting.

From the results of the first cycle research obtained learning activities of students with an average value of 75,19 in the category of quite active increased in cycle II with an average value of 85,10 in the active category. For the average value of student learning outcomes in the first cycle is 75,42 with a fairly competent category increased in the second cycle to 81,82 with the Competent category. The results showed the submission of hypotheses which stated that the application of the Problem Solving learning model can increase activity and student learning outcomes in engineering mechanics subjects could be accepted.

*Keywords: Problem Solving, Learning Activities, Learning Outcomes, Engineering Mechanics*

