

ABSTRAK

**PENERAPAN MODEL *PROBLEM BASED LEARNING (PBL)* LEWAT
DARING PADA MATERI USAHA DAN ENERGI UNTUK
MENINGKATKAN MINAT BELAJAR, KEAKTIFAN, DAN HASIL
BELAJAR SISWA KELAS X MIPA SMA NEGERI 1 DEPOK TAHUN
AJARAN 2019/2020**

Emanuela Tatah Kamberek

Universitas Sanata Dharma

Yogyakarta

2020

Penelitian ini bertujuan untuk mengetahui pengaruh penerapan model *problem based learning* lewat daring terhadap peningkatan minat belajar, keaktifan, dan hasil belajar siswa kelas X MIPA SMA Negeri 1 Depok pada materi usaha dan energi.

Penelitian ini telah dilaksanakan pada bulan Maret-Mei 2020. Subyek penelitian ini adalah siswa kelas X MIPA 4 SMA Negeri 1 Depok yang berjumlah 24 orang. *Treatment* yang digunakan dalam penelitian ini adalah *problem based learning*. Instrumen yang digunakan dalam penelitian ini antara lain: tes tertulis (*pretest* dan *posttest*), angket minat belajar, dan observasi keaktifan siswa selama proses pembelajaran. Analisis yang digunakan adalah uji T *dependent* berbantuan SPSS.

Hasil penelitian ini menunjukkan bahwa penerapan model *problem based learning* dapat meningkatkan: 1) minat belajar siswa dengan nilai rata-rata sebelum *treatment* 39,33 dan sesudah *treatment* 43,54; 2) hasil belajar siswa dengan nilai rata-rata sebelum *treatment* 31,04 dan sesudah *treatment* 91; dan 3) terdapat keaktifan siswa selama proses pembelajaran berlangsung berdasarkan hasil pengamatan.

Kata kunci: *problem based learning*, minat, keaktifan, hasil belajar, usaha dan energi.

ABSTRACT

***THE APPLICATION OF PROBLEM BASED LEARNING BY ONLINE
LEARNING ON THE MATERIALS OF WORK AND ENERGY
TO IMPROVE THE LEARNING INTEREST, PARTICIPATION, AND
LEARNING OUTCOMES FOR STUDENTS X MIPA SMAN 1 DEPOK OF
THE ACADEMIC YEAR 2019/2020***

Emanuela Tatah Kamberek

Sanata Dharma University

Yogyakarta

2020

This research aims to know the influence of the application the problem based learning model by online learning towards improvement the learning interest, participation, and learning outcomes for students X MIPA SMAN 1 Depok on the subject of work and energy.

This research was done on March-May 2020. The subject of the research was 24 students of class X MIPA 4. The treatment used for this research is problem based learning. The instrument used for the data collection are test instrument (pretest & posttest), questionnaires of learning interest, and observations of students participation on learning process. The analysis used is a SPSS-assisted dependent T-test.

The result of this research showed the application of problem based learning about work and energy materials can improve: 1) students learning interest with the mean before treatment 39,33 and after treatment 43,54; 2) students learning outcomes with the mean before treatment 31,04 and the mean after treatment 91,37; 3) there is a student's activity during the learning process based on the observation.

Keyword: *problem based learning, interest, participation, learning outcomes, work and energy.*