

ABSTRAK

PENERAPAN MODEL *PROJECT-BASED LEARNING* TERHADAP PEMAHAMAN SISWA KELAS X MIPA PADA MATERI USAHA DAN ENERGI DI SMA N 1 KALASAN

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2021

Tujuan dari penelitian ini adalah untuk mengetahui: (1) Penerapan model *Project-Based Learning* dapat meningkatkan pemahaman siswa. (2) Penerapan model *Project-Based Learning* dapat meningkatkan antusias siswa dalam belajar. Penelitian ini dilaksanakan secara daring di SMA N 1 Kalasan, pada tanggal 2 Februari-16 Februari 2021. Jenis penelitian yang digunakan ialah penelitian gabungan yaitu penelitian kualitatif dan kuantitatif. Subjek penelitian yaitu siswa-siswi kelas X MIPA 3 dengan jumlah 36 siswa dan X MIPA 4 dengan jumlah 36 siswa.

Berdasarkan hasil analisis dari pelaksanaan penelitian bahwa penerapan model *Project-Based Learning* terhadap pemahaman siswa kelas X MIPA 3 dan X MIPA 4 pada materi usaha dan energi di SMA N 1 Kalasan ialah dapat meningkatkan pemahaman siswa. Hal tersebut dapat dilihat berdasarkan dari nilai rata-rata *pre-test* yaitu 74,31 dengan total responden 72 siswa, sedangkan nilai rata-rata *post-test* yaitu 87,08. Penerapan pembelajaran model *Project-Based Learning* dapat meningkatkan antusias belajar siswa. Beberapa kesan siswa yang dituliskan banyak siswa yang senang dan merasa pembelajaran yang dilakukan tidak membosankan walaupun secara daring.

Kata kunci: model *Project-Based Learning*, materi usaha dan energi, pemahaman

ABSTRACT

IMPLEMENTATION OF PROJECT-BASED LEARNING MODEL TO THE UNDERSTANDING OF STUDENTS OF GRADE X MIPA ON THE TOPICS OF WORK AND ENERGY AT SMA N 1 KALASAN

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The purpose of this study is to find out: (1) The application of the Project-Based Learning model can improve students understanding. (2) The implementation of the Project-Based Learning model may increase students enthusiasm for learning. This research was conducted at SMA N 1 Kalasan, on February 2-February 16, 2021. The type of research used is combined research, namely qualitative and quantitative research. The subjects of the study were students of grade X MIPA 3 with a total of 36 students and X MIPA 4 with a total of 36 students.

Based on the results of the analysis of the implementation of research that the application of the Project-Based Learning model to the understanding of students of grade X MIPA 3 and X MIPA 4 on the topics of work and energy at SMA N 1 Kalasan is able to improve students understanding. This can be seen based on the average pre-test score of 74.31 with a total of 72 students respondents, while the average post-test score is 87.08. The implementation of project-based learning model can increase students' learning enthusiasm. Some of the impressions of students written by many students who are happy and feel that the learning done is not boring even online.

Keywords: *Project-Based Learning model, work and energy, understanding.*