

ABSTRAK**EFEKTIVITAS PENERAPAN MODEL PEMBELAJARAN FLIPPED
CLASSROOM PADA PEMBELAJARAN GELOMBANG MEKANIK
SISWA KELAS XI IPA 1 SMAS KATOLIK ST. JOHN PAUL II
MAUMERE**

Magdalena Ferlina Rere Djogo

Universitas Sanata Dharma

Yogyakarta

2021

Tujuan dari penelitian ini adalah untuk mengetahui: (1) penerapan model pembelajaran *flipped classroom* yang efektif pada siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere, (2) efektivitas penerapan model pembelajaran *flipped classroom* dilihat dari motivasi belajar pada siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere, dan (3) efektivitas penerapan model pembelajaran *flipped classroom* dilihat dari hasil belajar pada siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere.

Penelitian pada 26 Februari – 22 Mei 2021 dengan subyek penelitian adalah siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere tahun pelajaran 2020/2021. Metode penelitian yang digunakan adalah *design research* dengan *treatment* model pembelajaran *flipped classroom* untuk mengajarkan materi gelombang mekanik. Instrumen pengumpulan data adalah angket, wawancara dan *pretest - posttest*. Data berupa skor diolah menggunakan statistik nonparametrik uji *Wilcoxon* dengan bantuan *software SPSS 22.0 for windows*.

Hasil penelitian menunjukkan bahwa: (1) penerapan model pembelajaran *flipped classroom* pada siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere secara tatap muka atau daring efektif diterapkan ketika siswa melaksanakan aktivitas pra pembelajaran sesuai tugas yang diberikan dan terjadi interaksi yang baik antara siswa dengan guru pada aktivitas dalam pembelajaran. (2) Penerapan model pembelajaran *flipped classroom* dilihat dari motivasi belajar siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere adalah tidak efektif karena tidak terdapat perbedaan motivasi belajar sebelum dan setelah diterapkan model pembelajaran *flipped classroom*. (3) Penerapan model pembelajaran *flipped classroom* dilihat dari hasil belajar siswa kelas XI IPA 1 SMAS Katolik St. John Paul II Maumere adalah efektif karena terdapat perbedaan hasil belajar sebelum dan setelah diterapkan model pembelajaran *flipped classroom*.

Kata kunci: *Flipped Classroom*, Hasil Belajar, Motivasi Belajar, Gelombang Mekanik.

ABSTRACT**THE EFFECTIVENESS OF THE APPLICATION OF THE FLIPPED CLASSROOM LEARNING MODEL ON THE LEARNING OF MECHANICAL WAVES IN STUDENTS OF CLASS XI IPA 1 SMAS CATHOLIC ST. JOHN PAUL II MAUMERE**

Magdalena Ferlina Rere Djogo

Sanata Dharma University

Yogyakarta

2021

The aims of this study were to determine: (1) the effective application of the flipped classroom learning model to the students of class XI IPA 1 SMAS Catholic St. John Paul II Maumere, (2) the effectiveness of the application of the flipped classroom learning model is seen from the motivation to learn in class XI IPA 1 SMAS Catholic St. John Paul II Maumere, and (3) the effectiveness of the application of the flipped classroom learning model is seen from the learning outcomes of students in class XI IPA 1 SMAS Catholic St. John Paul II Maumere.

The study was conducted on February 26 - May 22, 2021 with the research subjects being students of class XI IPA 1 SMAS Catholic St. John Paul II Maumere for the 2020/2021 school year. The research method used is design research with the treatment of flipped classroom learning model to teach the material of mechanical waves. The data collection instruments were questionnaires, interviews and pretest - posttest. Data in the form of scores were processed using Wilcoxon test nonparametric statistics with the help of SPSS 22.0 software for windows.

The results showed that: (1) the application of the flipped classroom learning model to students of class XI IPA 1 SMAS Catholic St. John Paul II Maumere face-to-face or online is effectively applied when students carry out pre-learning activities according to the assigned tasks and there is good interaction between students and teachers in-learning activities. (2) The application of the flipped classroom learning model is seen from the learning motivation of class XI IPA 1 SMAS Catholic St. John Paul II Maumere is ineffective because there is no difference in learning motivation before and after the flipped classroom learning model is applied. (3) The application of the flipped classroom learning model is seen from the learning outcomes of class XI IPA 1 SMAS Catholic St. John Paul II Maumere is effective because there are differences in learning outcomes before and after the flipped classroom learning model is applied.

Keywords: *Flipped Classroom, Learning Outcomes, Learning Motivation, Mechanical Waves.*