

ABSTRAK

Indah Veronika Susanti Tarigan, NIM 4192411024 (2023). Upaya Meningkatkan Pemahaman Konsep Matematika dengan Model Pembelajaran *Conceptual Understanding Procedures* (CUPs) Berbantuan E-Modul Di Kelas XI IPA SMAN 11 Medan

Penelitian ini bertujuan untuk melihat apakah terdapat peningkatan kemampuan pemahaman konsep matematika siswa dengan diterapkannya model pembelajaran *Conceptual Understanding Procedures* (CUPs) berbantuan e-modul. Jenis penelitian ini merupakan penelitian tindakan kelas (PTK), dengan yang menjadi subjek pada penelitian ini ialah siswa kelas XI IPA-4 SMAN 11 Medan yang berjumlah 35 orang. Objek pada penelitian ini yaitu meneliti penerapan model pembelajaran *Conceptual Understanding Procedures* (CUPs) berbantuan e-modul mampu atau tidak mampu dalam meningkatkan pemahaman konsep matematika siswa pada materi trigonometri di kelas XI IPA-4 SMAN 11 Medan tahun ajaran 2023/2024. Penelitian ini terbagi menjadi 2 siklus, pada siklus I berdasarkan analisis yang dilakukan pada data penelitian menunjukkan siswa yang memenuhi kriteria keberhasilan belajar ialah 22 siswa (62,85%) sedangkan 13 siswa (37,14%) belum memenuhi kriteria keberhasilan belajar. Siklus I menghasilkan nilai rata-rata kelas 78,66. Selanjutnya, pada siklus yang ke II terjadi peningkatan yakni total siswa yang mencapai kriteria keberhasilan belajar menjadi 31 siswa (88,57%) atau kategori tinggi, meskipun 4 siswa (11,49%) masih belum memenuhi kriteria keberhasilan belajar dan rata-rata kelas 86,38. Pada siklus yang kedua terpenuhi indikator keberhasilan penelitian. Terdapat peningkatan persentase siswa yang berhasil mencapai kriteria keberhasilan belajar klasikal pada tes menjadi kategori sedang dan pada setiap siklus terjadi peningkatan nilai rata-rata. Hasil penelitian yang diperoleh menunjukkan bahwa penerapan model pembelajaran *Conceptual Understanding Procedures* (CUPs) berbantuan e-modul pada materi trigonometri meningkatkan kemampuan pemahaman konsep matematika siswa kelas XI IPA-4 SMAN 11 Medan tahun ajaran 2023/2024.

Kata kunci: Konsep, siklus, peningkatan, indikator.

ABSTRACT

Indah Veronika Susanti Tarigan, NIM 4192411024 (2023). Efforts to Improve Understanding of Mathematical Concepts with the Conceptual Understanding Procedures (CUPs) Learning Model Assisted by E-Modules in Class XI Science at SMAN 11 Medan

This research aims to see whether there is an increase in students' ability to understand mathematical concepts by implementing the Conceptual Understanding Procedures (CUPs) learning model assisted by e-modules. This type of research is classroom action research (PTK), with the subjects of this research being class XI IPA-4 students at SMAN 11 Medan, totalling 35 people. The object of this research is to examine whether the application of the Conceptual Understanding Procedures (CUPs) learning model assisted by e-modules is capable or not in improving students' understanding of mathematical concepts in trigonometry material in class XI IPA-4 SMAN 11 Medan in the 2023/2024 academic year. This research was divided into 2 cycles, in cycle I, based on the analysis carried out on research data, it showed that 22 students (62.85%) met the criteria for learning success, while 13 students (37.14%) did not meet the learning success criteria. Cycle I produced a class average score of 78.66. Furthermore, in the second cycle there was an increase, namely the total number of students who achieved the criteria for learning success became 31 students (88.57%) or the high category, although 4 students (11.49%) still did not meet the criteria for learning success and the class average 86.38. In the second cycle, the research success indicators were met. There was an increase in the percentage of students who succeeded in achieving the criteria for classical learning success in the test to the medium category and in each cycle there was an increase in the average score. The research results obtained show that the application of the Conceptual Understanding Procedures (CUPs) learning model assisted by e-modules in trigonometry material improves the ability to understand mathematical concepts in class XI IPA-4 students at SMAN 11 Medan for the 2023/2024 academic year.

Keywords: Concept, cycle, increase, indicator.